SERVICE MANUAL SD3030

marantz®

model SD3030

Stereo Cassette Deck

MARANTZ DESIGN AND SERVICE

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SUPERSCOPE NATIONAL PARTS DEPARTMENT
20525 Nordhoff Street
Chatsworth, California 91311
Phone: 1-800-423-5108
1-213-998-9333

The following information must be supplied to eliminate delays in processing your order:

1. Complete address.
2. Complete part numbers.
3. Complete description of parts.
4. Model number for which part is required (indicate MARANTZ).
5. Account number (for account customers only).

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OVERSEAS PARTS ORDERING

Parts may also be ordered from the following overseas addresses:

U.S.A.
Marantz Company, Inc.
National Service Dept.
P.O. Box 577
Chatsworth, CA 91311
U.S.A.

CANADA
Superscope Canada, Ltd.
3710 Nashua Drive
Mississauga
Ontario, Canada L4V1M5

AUSTRALIA
Marantz Australia
32 Cross Street
Brookvale, NSW 2100
Australia

JAPAN
Marantz Japan, Inc.
3622 Kamitsuruma
Sagamihara-shi
Kanagawa, Japan

EUROPE

Marantz Europe S.A.
326 Avenue Louise Bte 32
1050 Brussels
Belgium

Marantz France
4 rue Bernard Palissy
92600 Asnieres
France

Marantz Audio U.K., Ltd.
Unit 15/16 Saxon Way
Moor Lane
Harmonsworth
US70LW
Great Britain

Marantz Germany GMBH
Max-Planck-Strasse 22
6072 Dreieich
West Germany

Marantz Belgium
45 rue Auguste Van Zande
1080 Brussels
Belgium

Marantz Svenska A.B.
Franzengatan 6
10425 Stockholm
Sweden

Marantz Norske A.S.
Refstadalleen 13
Oslo 5
Norway

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please contact the nearest facility for the necessary assistance.

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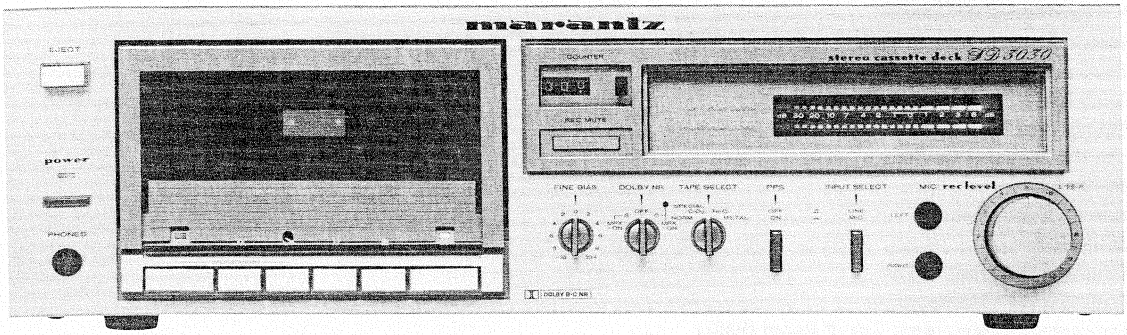
MARANTZ MODEL SD3030 CASSETTE DECK



INTRODUCTION

This service manual are prepared for use by Authorized Warranty Station and contains service information for Marantz Stereo Cassette Deck.

Servicing information and voltage data included in this manual are intended for use by the knowledgeable and experienced technician only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of the operation of the Cassette Deck.

The parts list furnishes information by which replacement parts may be ordered from the Marantz Company. A simple description is included for parts which can be usually obtained through local suppliers.

1. P.W. BOARDS

As can be seen from the circuit diagram, the chassis of your Cassette Deck consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

1. Main Amp . . . . . mounted on P.W. Board PJ01
2. Headphone . . . . . mounted on P.W. Board PJ02
3. Rec Volume . . . . . mounted on P.W. Board PJ03
4. Mic Jack . . . . . mounted on P.W. Board PK01
5. Rec Muting SW . . . . mounted on P.W. Board PK02
6. Macha L.E.D. . . . . mounted on P.W. Board PY01
7. Cassette L.E.D. . . . . mounted on P.W. Board PY02
8. Dolby A and B . . . . . mounted on P.W. Board P601
9. Dolby Indicator . . . . mounted on P.W. Board P603
10. Power Supply . . . . . mounted on P.W. Board P801
11. Power Indicator . . . . mounted on P.W. Board P802

2. TEST EQUIPMENT REQUIRED FOR SERVICING

For measuring or checking your Cassette Deck, the following instruments and materials are necessary.

- VTVM
- Audio Oscillator (AF OSC)
- Attenuator (600 Ω)
- Oscilloscope
- Bandpass Filter (1 kHz)
- IEC A-Curve Filter
- Wow and Flutter Meter
- Torque Meter (Cassette Type)
- Digital Frequency Counter
- Distortion Meter
- Blank Tapes (Completely erased with bulk eraser)
  TDK AC-212 (Normal)
  TDK AC-512 (Special/CrO_2)
  SONY CS-30 (Fe-Cr)
  TDK AC-711 (Metal)

NOTE: **If any doubt is noted in a measured value, use new tape.**

- Test Tapes (New Tape)

MTT-111	Wow and Flutter, Tape Speed
MTT-112	Measurements of Output Level
MTT-112B	Signal-to-Noise Ratio
MTT-150	Adjustment of Output Level
MTT-216	Frequency Response (for Normal)
MTT-316	Frequency Response (for Special/CrO_2, Fe-Cr and Metal)
MTT-121	Cross Talk
MTT-141	Channel Separation

3. MECHANISM AND CIRCUIT DESCRIPTION

3.1 SOFT TOUCH PUSHBUTTONS

While conventional pushbutton mechanisms have required a full fingertip operating pressure, those on the SD3030 require only a very small triggering pressure, with the major operation sequence accomplished by flywheel rotation. This reduces the required operating pressure to 200 ~ 400 g and the operation stroke to only 3 mm, which result in the soft-touch operation feeling of the push-buttons.

3.2 RECORD/PLAY SWITCHING

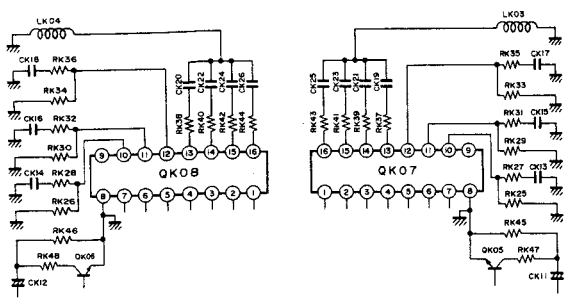
Switching between the record and play modes is accomplished by a slide switch (SJ01) and a leaf switch (S073). The slide switch selects the signal paths in the front stages, while the leaf switch is used to control LED indicators and electronic switches (for the Dolby circuit).

3.3 PLAYBACK EUQALIZER CIRCUIT

The equalization time constants of the playback equalizer amplifier's negative feedback network are fixed to 3180 μsec and 120 μsec. The time constant of 70 μsec is obtained by switching CR network by the electronic switching circuits, QJ07 and QJ08.

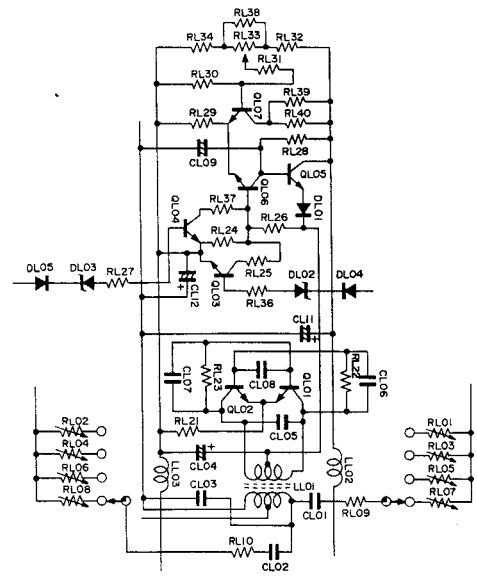
3.4 RECORD COMPENSATION CIRCUIT

In the record mode, the TAPE SELECTOR switch (SS05) selects the appropriate tape type. This switch internally selects the circuit networks for recording-sensitivity and mid-range compensation.



3.5 BIAS CURRENT SETTING CIRCUIT

The TAPE SELECTOR switch selects the input voltages of the bias oscillator and its trimmer resistors. This permits adjustment for individual tape positions and channels.



3.6 DOLBY-NR/MPX-FILTER SWITCHING

a. DOLBY NR Off

When S601 is set at center a +B potential couples to the bases of Q623, Q624, Q909 and Q910. This makes the Dolby circuit function inactive.

b. DOLBY B On

When S601 is turned single step counterclockwise, the +B potential is removed from the bases of Q902 and Q910 with the same potential left applied to the bases of Q623 and Q624. This makes the Dolby-B circuit function active.

c. DOLBY-B/MPX FILTER On

When S601 is turned a single step further, the +B potential is coupled to the bases of Q607, Q608, Q609 and Q610 while the Dolby-B function is maintained. This also activated the MPX filter.

d. DOLBY-C On

When S601 is turned a single step clockwise from the center, the +B potential is removed from all the bases of Q623, Q624, Q909 and Q910. This activates the Dolby-C circuit.

e. DOLBY-C/MPX FILTER On

When S601 is turned a single step further, the +B potential is coupled to the bases of Q607 ~ Q610 while the Dolby-C circuit function is maintained. This activates the MPX filter.

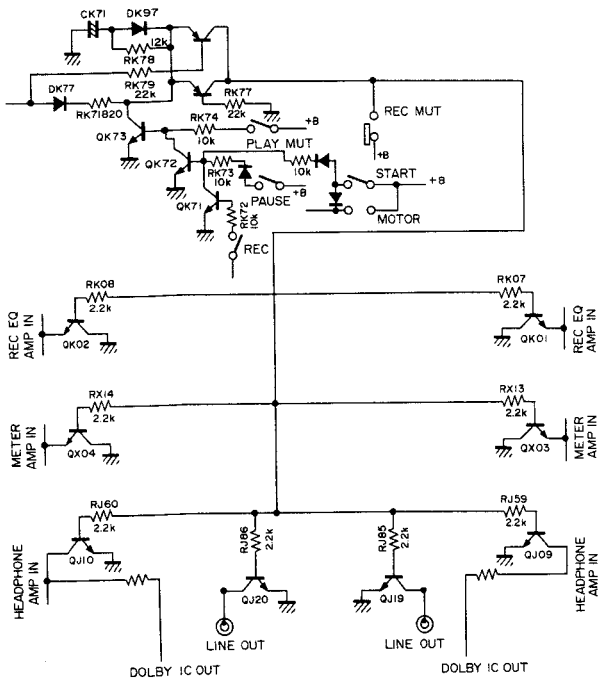
3.7 MUTING CIRCUIT

a. Power ON muting

To mute the pop noise and LED meter deflection upon power on, a time constant network providing a time delay of 4 seconds is provided in the 12 VDC supply line.

b. Record/Play Muting

Indivisual muting transistors are used in the record and playback systems. These transistors are activated by a high level signal supplied via the Motor switch (SJ10) and the REC switch (SJ01).

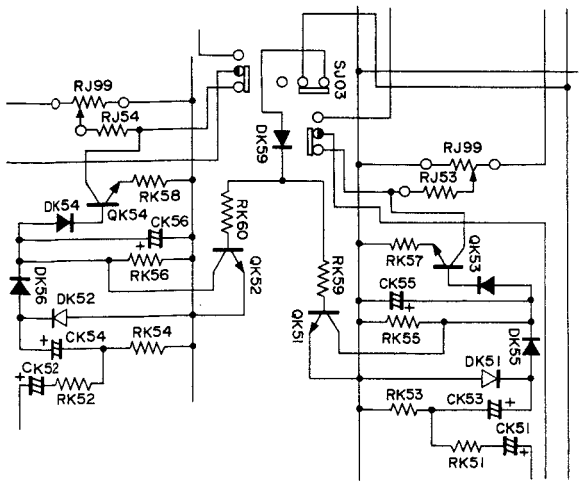


3.8 LINE/HEADPHONE AMPLIFIERS

The line output is taken from the emitter followers, QJ11 and QJ12. The headphone outputs are obtained from the SEPP circuits, QJ13 ~ QJ16.

3.9 PPS CIRCUIT

If an input overload occurs with the PPS switch (SJ03) set at ON, the base potential of QK53 and QK54 is controlled to prevent record level saturation. When the PPS switch is set at OFF, a +B potential is coupled to the bases of QK51 and QK52 to mute the PPS circuit.



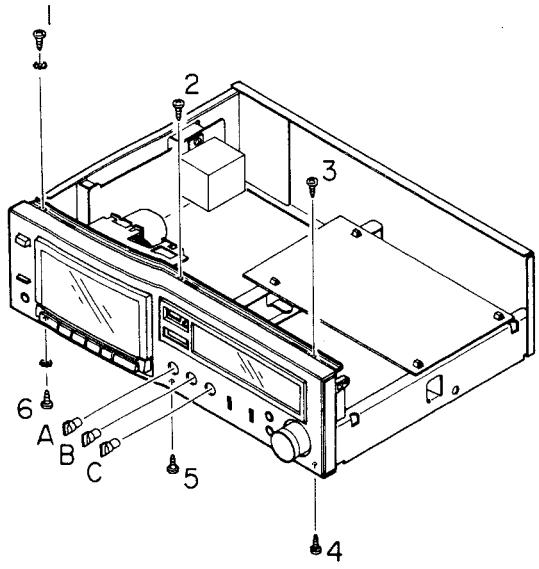
3.10 AUTO SHUT OFF FEATURE

The end of a tape is detected by sensing playback take-up torque. When the end of a tape is reached in any mode, the playback take-up torque is nullified. As a result, the pin on the TMS swing arm (825N) and the cam on the TMS gear (831N) release the locking cam, disengaging the transport mechanism (auto shut off).

4. DISASSEMBLY

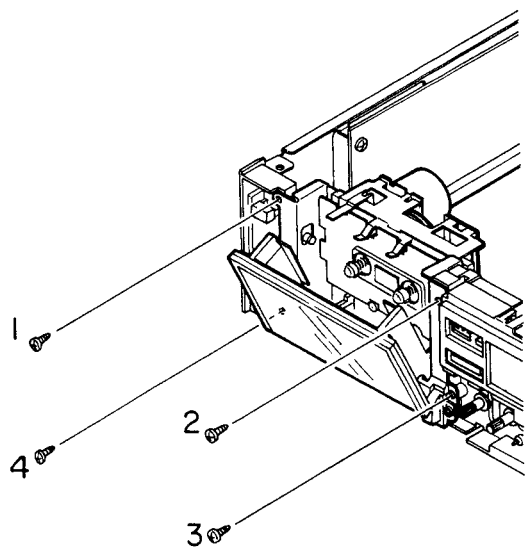
4.1 REMOVING THE FRONT PANEL

Remove knobs A~C, remove screws 1~6 and reveme the front panel.



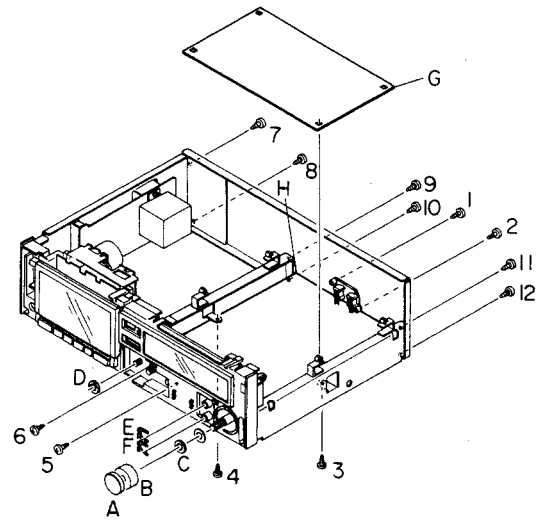
4.2 REMOVING THE MECHANISM

Remove screws 1~4 and remove the mechanism.



4.3 REMOVING THE MAIN AMP CIRCUIT BOARD (PJ01)

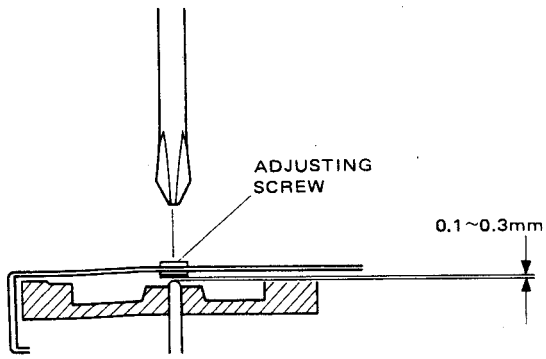
1. Remove knobs A and B. Remove nuts and clampers C~F and remove screws 1~6.
2. Remove screws 7~12 and remove the rear panel. Remove P.W. board G and pull out main P.W. board to the rear (downward).



5. MECHANICAL ADJUSTMENTS

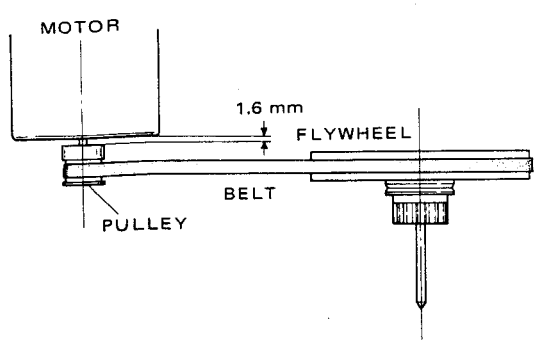
5.1 ADJUSTING THE FLYWHEEL THRUST

Adjust the thrust screw at the flywheel bracket until the clearance between the capstan tail end and the thrust bearing is 0.1 to 0.3 mm, using a philips screw driver. For adjusting, feel for axial dropping of the flywheel for proper clearance as this cannot be seen through.



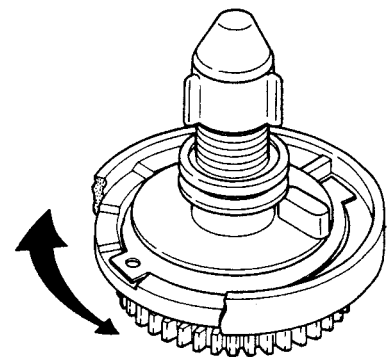
5.2 ADJUSTING THE MOTOR PULLEY

After putting the pulley on the motor shaft, attach the belt from the pulley to the flywheel. After turning the flywheel 2 or 3 times, properly position the pulley so that the belt is put on the center of the flywheel. Make sure the clearance between the pulley and the motor is approx. 1.6 mm.



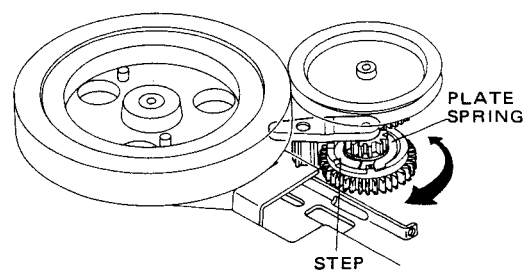
5.3 ADJUSTING THE PLAY TAKE-UP TORQUE

Set the plate spring in proper one of the six steps as shown.
The adjustable torque range is 40 to 65g·cm.
The torque variation ratio is approx. 5g·cm/step.



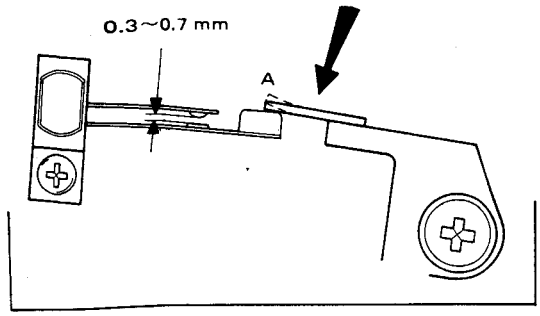
5.4 ADJUSTING THE FF/REW TORQUE

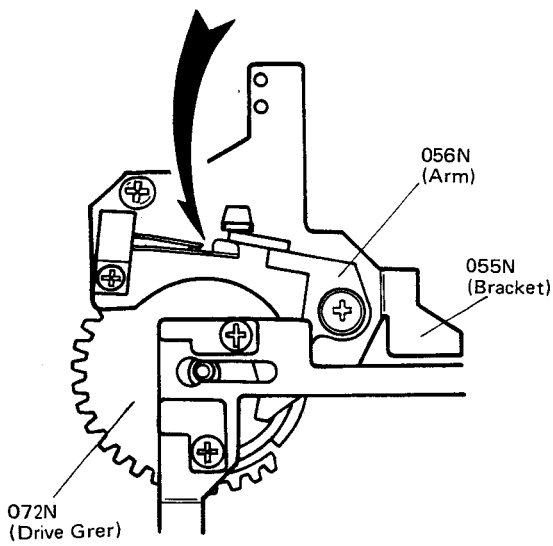
Set the plate spring in proper one of the four steps as shown.
The adjustable torque range is 75 to 120g·cm.
The torque variation ratio is 5 to 10g·cm/stop.



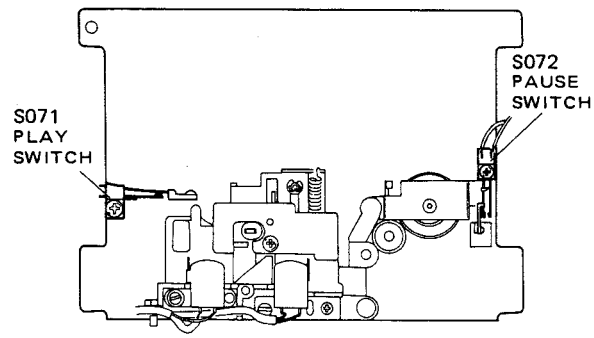
5.5 ADJUSTING THE CONTACT CLEARANCE OF THE STARTER SWITCH

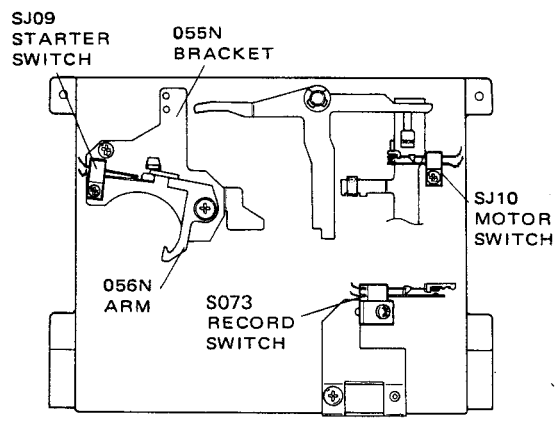
When pushing the starter switch in stop mode of operation, if the motor is not running, adjust the contact clearance of starter switch by bending A portion until the clearance becomes 0.3 to 0.7 mm.





SWITCH LOCATION





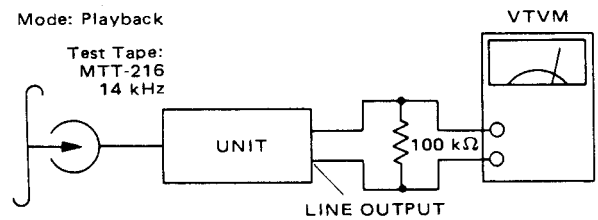
6. ELECTRICAL ADJUSTMENTS

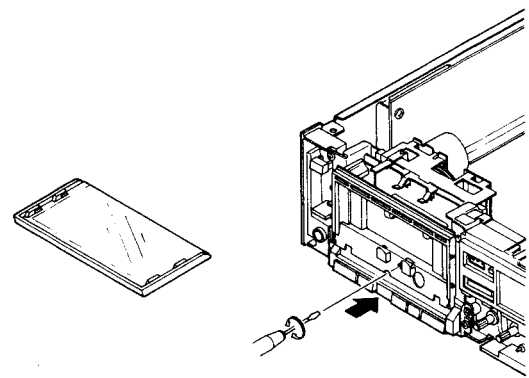
Precautions before Adjustment

1. Before playing the test tape back, thoroughly demagnetize the heads, capstan and similar metal parts using an eraser as the test tape-recorded tone is easily erased.
2. Do not place the test tape on any measuring instrument.
3. Do not put the test tape near a place where the eraser is used.
4. Method of Demagnetization: – Turn the eraser power switch on at a remote position far away from the heads. Bring the eraser close to the heads, capstan and other parts to be demagnetized, and move it up and down four or five times to demagnetize. Slowly separate the eraser far away from the parts, and turn the power switch off.
5. Do not use any magnetized adjusting tool. When using it, demagnetize it from time to time in the course of each adjustment.
6. Do not turn semi-fixed resistor more than needed.
7. Do not apply locking bond excessively.

6.1 HEAD AZIMUTH ADJUSTMENT

1. Remove the cassette door lid and the escutcheon.
2. Set the TAPE SELECT switch to the NORM position.
3. Play the 14 kHz signal of the test tape MTT-216 back. Adjust the head azimuth adjusting screw for maximum VTVM reading.
4. If the peak output reads of the right and left channels are different, set the screws to obtain the mechanical center between the peaks.
5. After adjustment, repeat the playback and stop setting a few times to make certain of no head azimuth deviation. Then, lock the screws with bond.



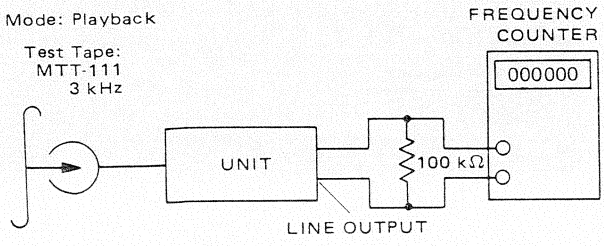


6.2 TAPE SPEED ADJUSTMENT

Play the 3 kHz signal of the test tape MTT-111 back. Adjust the tape speed adjusting resistor inside the motor (M001) for 2990 to 3010 Hz counter indication.

NOTES:

1. If a strong shock or similar vibration is applied to the deck after adjustment, make certain that the measured tape speed had not changed.
2. Be careful that the frequency counter may indicate a wrong value because of too low counter input level.
3. Before adjustment, allow for 30 seconds or more after depressing of the PLAY button.

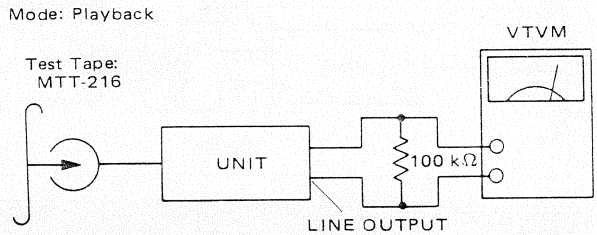


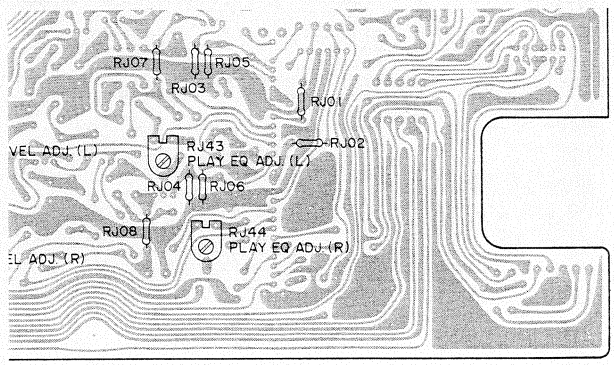
6.3 PLAYBACK EQUALIZER ADJUSTMENT

1. SELECT the NORM position of the TAPE SELECT switch.
2. Play the 315 Hz signal of the test tape MTT-216 back. Let the 315 Hz signal level be reference as 0 dB.
3. Play the 12.5 kHz signal of the test tape MTT-216 back. Adjust RJ43(L) and RJ44(R) (5 kΩ each) for 12.5 kHz frequency response of 0 to −1 dB in reference to the 315 Hz signal level.

NOTES:

1. Proceed both for the right and left channels in the same manner.
2. Note that clockwise turning of RJ43(L) and RJ44(R) will increase the 14 kHz signal output level.





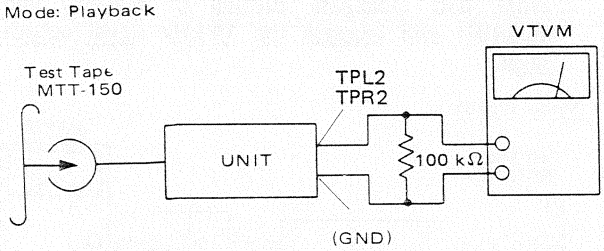
6.4 PLAYBACK OUTPUT LEVEL ADJUSTMENT

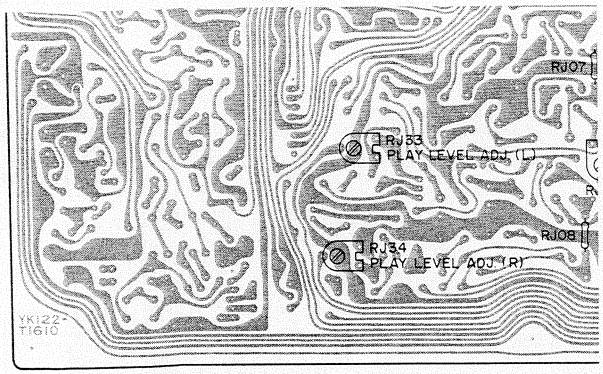
1. SELECT the NORM position of the TAPE SELECT switch.
2. Play the test tape MTT-150 back. Adjust RJ33(L) and RJ34(R) (50 kΩ each) for 580 mV playback output level at the test points TPL2 and TPR2.

NOTES:

1. **Proceed both for the right and left channels in the same manner.**
2. **This adjustment should be performed after the one for the "Playback Euqalizer Adjustment".**

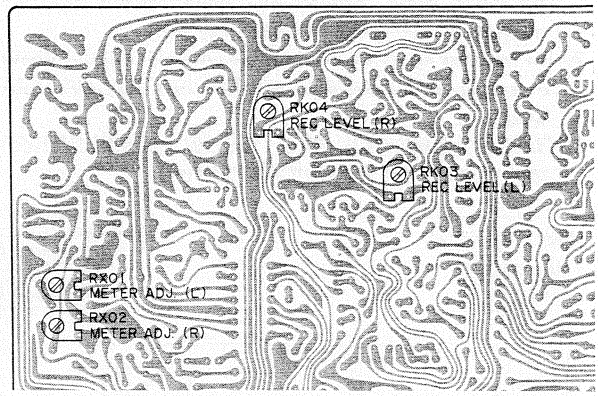
Mode: Playback





6.5 L.E.D METER ADJUSTMENT

1. Follow the same procedures as in the "Playback. Output Level Adjustment" section.
2. Adjust RX01(L) and RX02(R) (20 kΩ each) for DC (+2 dB) L.E.D meter reading.

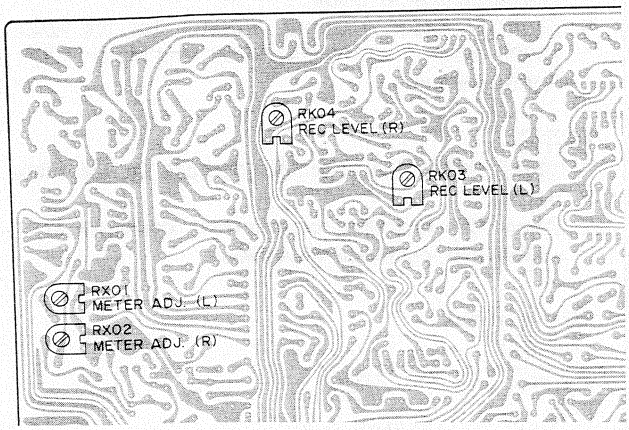


6.6 RECORD-PLAYBACK LEVEL ADJUSTMENT

1. SELECT the NORM position of the TAPE SELECT switch.
2. Connect the 1 kHz, -60 dBV signal to the MIC jack. Set up the deck to the recording state.
3. Adjust the REC LEVEL control for 0 dB L.E.D meter reading.
4. Play the recorded portion back and adjust RK03(L) and RK04(R) for 0 dB L.E.D meter reading.

NOTE:

Proceed both for the right and left channels in the same manner.



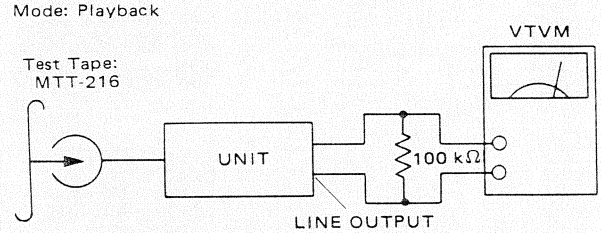
6.7 PLAYBACK FREQUENCY RESPONSE ADJUSTMENT

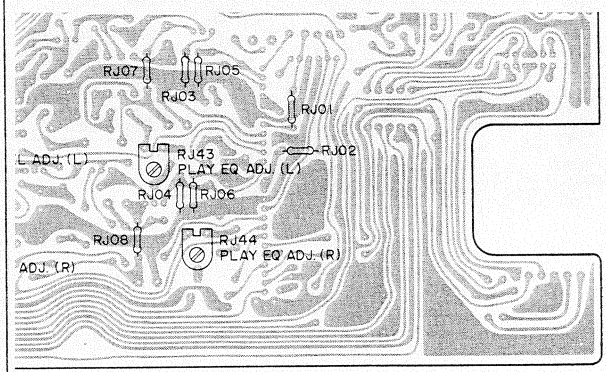
1. SELECT the NORM position of the TAPE SELECT switch.
2. Play the 31.5 Hz to 14 kHz signals of the test tape MTT-216 back.
3. Adjust RJ43(L) and RJ44(R) so that the 12.5 kHz response is within 0 to −1 dB as reference to the 40 Hz, 0 dB response.
4. Depress the SPECIAL/CrO_2 button of the TAPE SELECT buttons.
5. Play the test tape MTT-316 back. Then, make sure that the 40 Hz and 12.5 kHz signals are within 0 to −1 dB.

NOTE:

This adjustment should be performed after the one for the "Head Azimuth Adjustment".

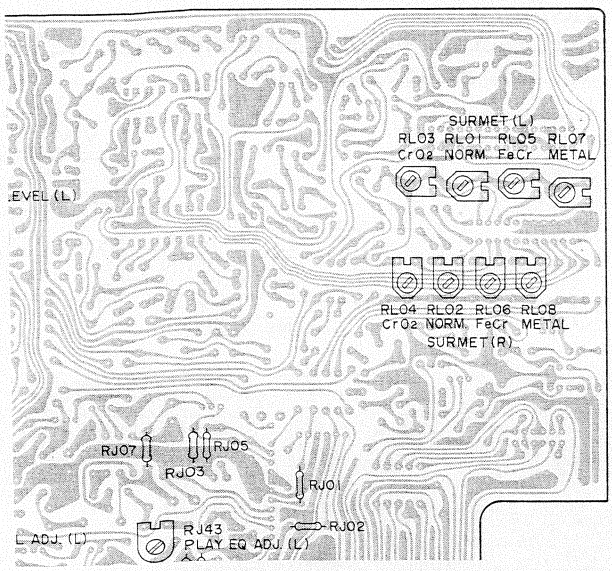
Mode: Playback





6.8 RECORDING BIAS ALIGNMENT

1. Set the TAPE SELECT switch to NORM, and put the unit to the record mode.
2. Adjust RL01(L) and RL02 (R) until the voltage across RJ01 and RJ02 is 3.2 mV (bias current 320 μA).
3. Similarly, adjust the bias currents for the CrO_2, FeCr and Metal positions to the following values:
   CrO_2 : 4.0 mV (400 μA) RL03/RL04
   FeCr : 3.3 mV (330 μA) RL05/RL06
   Metal : 7.0 mV (700 μA) RL07/RL08



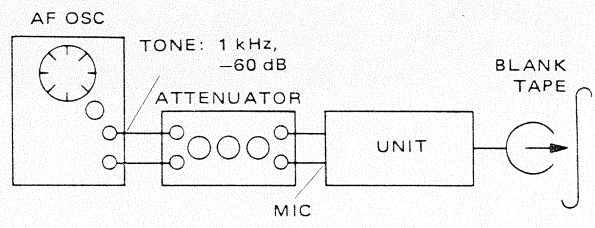
6.9 RECORD/PLAYBACK FREQUENCY RESPONSE ADJUSTMENT

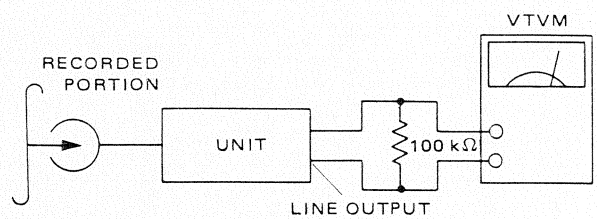
1. Set the SELECTOR switch to NORM.
2. Set up the unit to the recording mode and apply 1 kHz, 1 mV signal to the MIC jack. Turn the RECORD LEVEL controls so that the L.E.D level meter reads 0 VU.
3. Reduce the input level by 23 dB and record a signal of 1 kHz and 12.5 kHz, −60 dB onto a blank tape. Play back the recorded tape and adjust the bias current with RJ01 (L) and RJ02 (R) so that the level difference is ±1 dB.
4. Similarly, adjust the bias currents for the CrO_2 (RJ03, RJ04), FeCr (RJ05, RJ06) and Metal (RJ07, RJ08) positions.

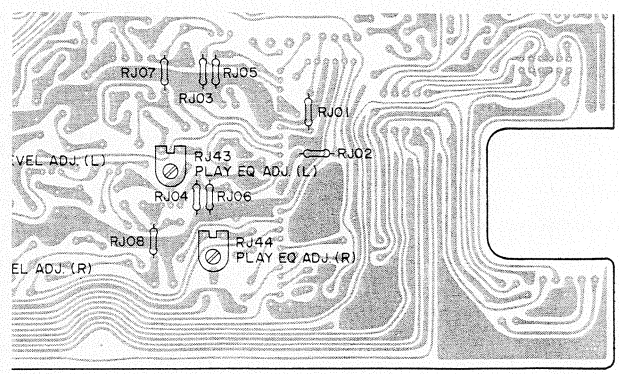
NOTES:

1. **Adjust both right and left channels in the same manner.**
2. **When the recording bias current decreases after adjustment, check the distortion.**

Mode: Record





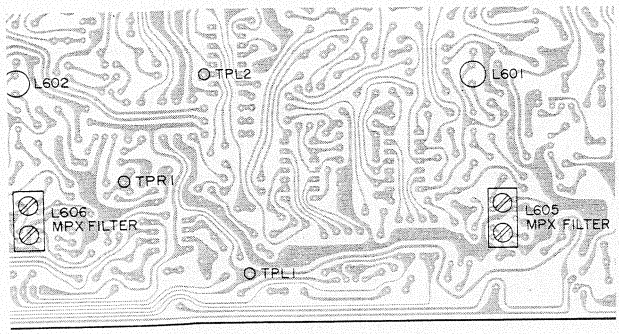


6.10 BIAS TRAP ADJUSTMENT

1. SELECT the METAL position of the TAPE SELECT switch.
2. Adjust L605(L) and L606(R) for minimum leak bias at the LINE OUTPUT jacks.

NOTES:

1. **If the leak bias less than the specified value, the bias trap needs not to be adjusted.**
2. **The adjusting screwdriver should be non-metalic.**



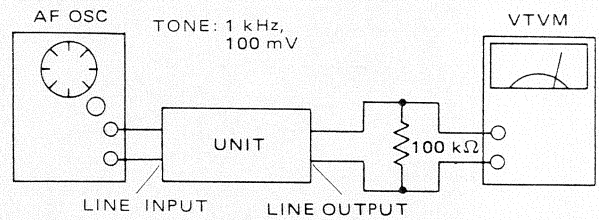
6.11 MPX FILTER ADJUSTMENT

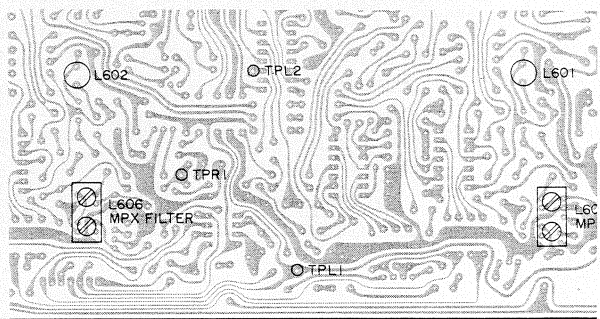
1. SELECT the NORM position of the TAPE SELECT switch.
2. Connect the 1 kHz, 100 mV input signal to the LINE INPUT jack.
3. Set up the deck to the recording state.
4. Adjust the REC LEVEL control for 0 dB meter reading.
5. Adjust the line output level for 0 dB, and turn the DOLBY NR switch to the ON position.
6. Turn the input signal to the 19 kHz.
7. Adjust L601(L) and L602(R) for minimum output level.

NOTES:

1. **Proceed both for the right and left channels in the same manner.**
2. **If the filter characteristic is better than 30 dB, the MPX filter needs not to be adjusted.**
3. **For the 19 kHz pilot, use a frequency counter to adjust it to 10 kHz ± 10 Hz.**

Mode: Record





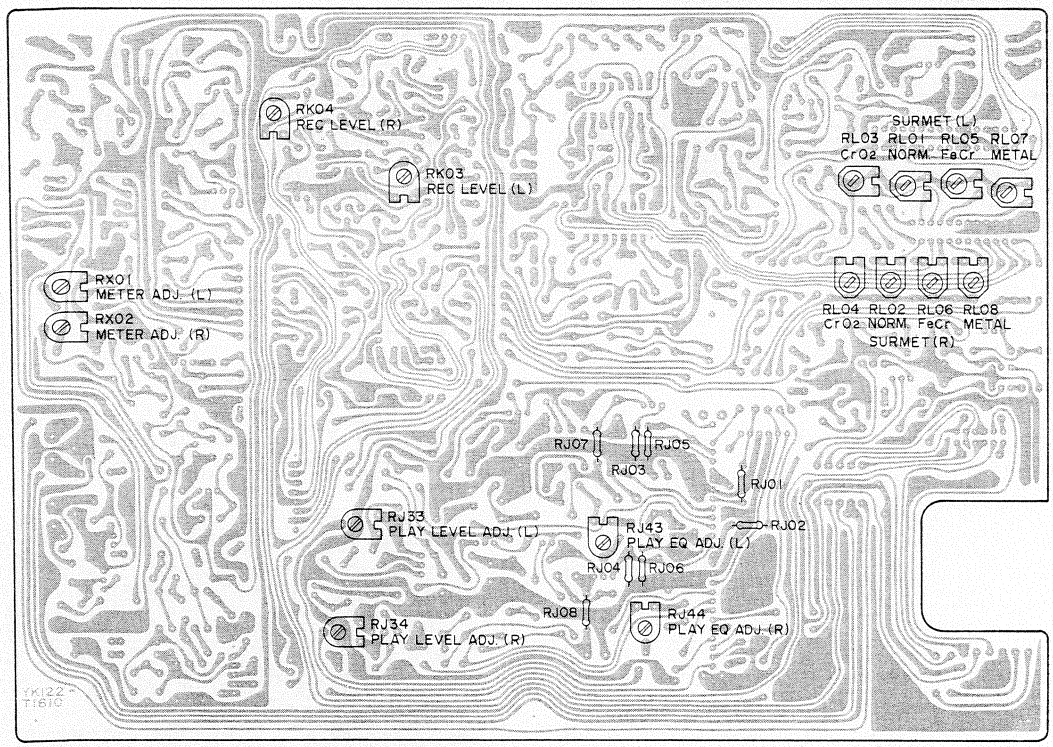
6.12 DOLBY CIRCUIT ALIGNMENT

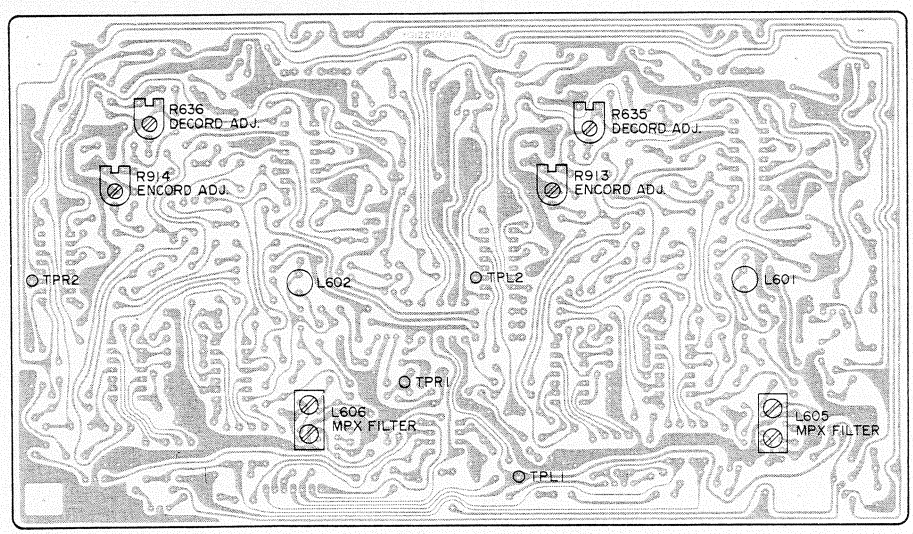
1. Encode (record) mode

1–1 Put the unit to the record mode.
1–2 Set the Noise Reduction switch (S601) to OFF.
1–3 Apply a 100 Hz, 100 mV sine-wave signal to the LINE INPUT, and adjust the Rec Level control unit the outputs at TPL1 and TPR1 are both 580 mV.
1–4 Adjust R913 and R914 until the output at TPL2 and TPR2 is both 580 mV.

2. Decode (play) mode

2–1 Play the test tape.
2–2 Set the Noise Reduction switch (S601) to OFF.
2–3 Adjust RJ33 and RJ34 on the main PC board until the outputs at TPL2 and TPR2 are both 580 mV.
2–4 Adjust R635 and R636 until the outputs at TPL1 and TPR1 are both 580 mV.

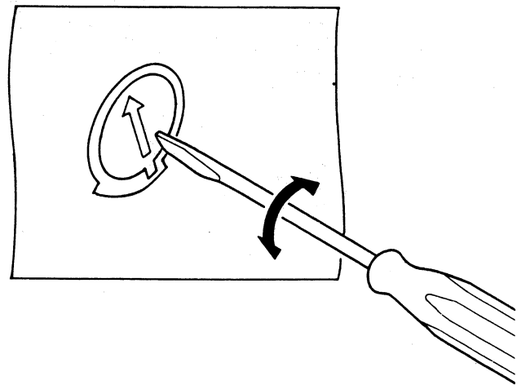




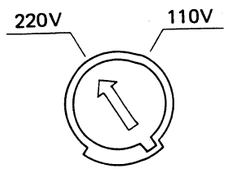
7. VOLTAGE CONVERSION

To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

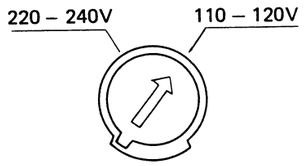
CAUTION: DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE. DO NOT DISASSEMBLE THE VOLTAGE SELECTOR ABSOLUTERY.



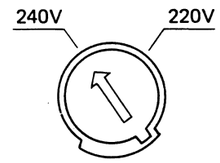
(N) VERSION



(P) VERSION



(T/A) VERSIONS

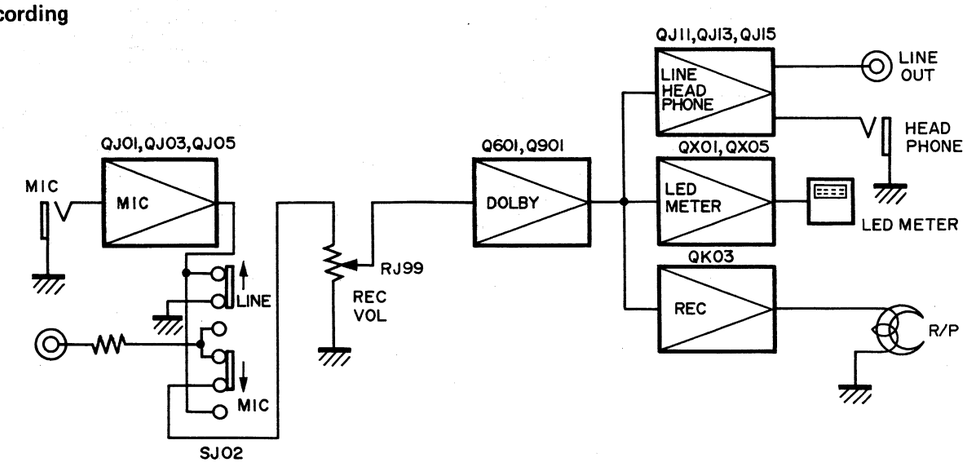


NOTE ON SAFETY: THE PARTS MARKED WITH ⚠ ARE IMPORTANT PARTS ON THE SAFETY. PLEASE USE THE PARTS HAVING THE DESIGNATED PARTS NUMBERS WITHOUT FAIL.

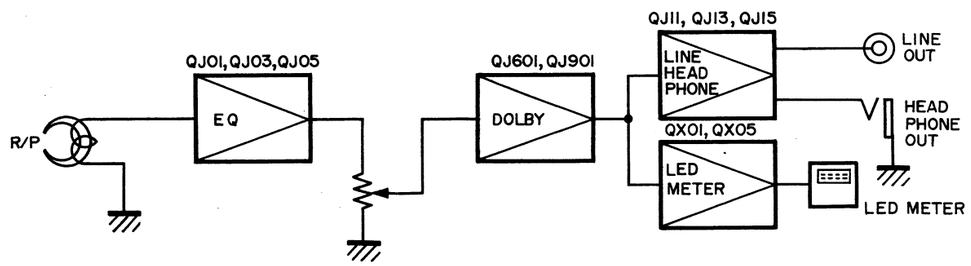
8. DIAGRAMS

8.1 BLOCK DIAGRAMS

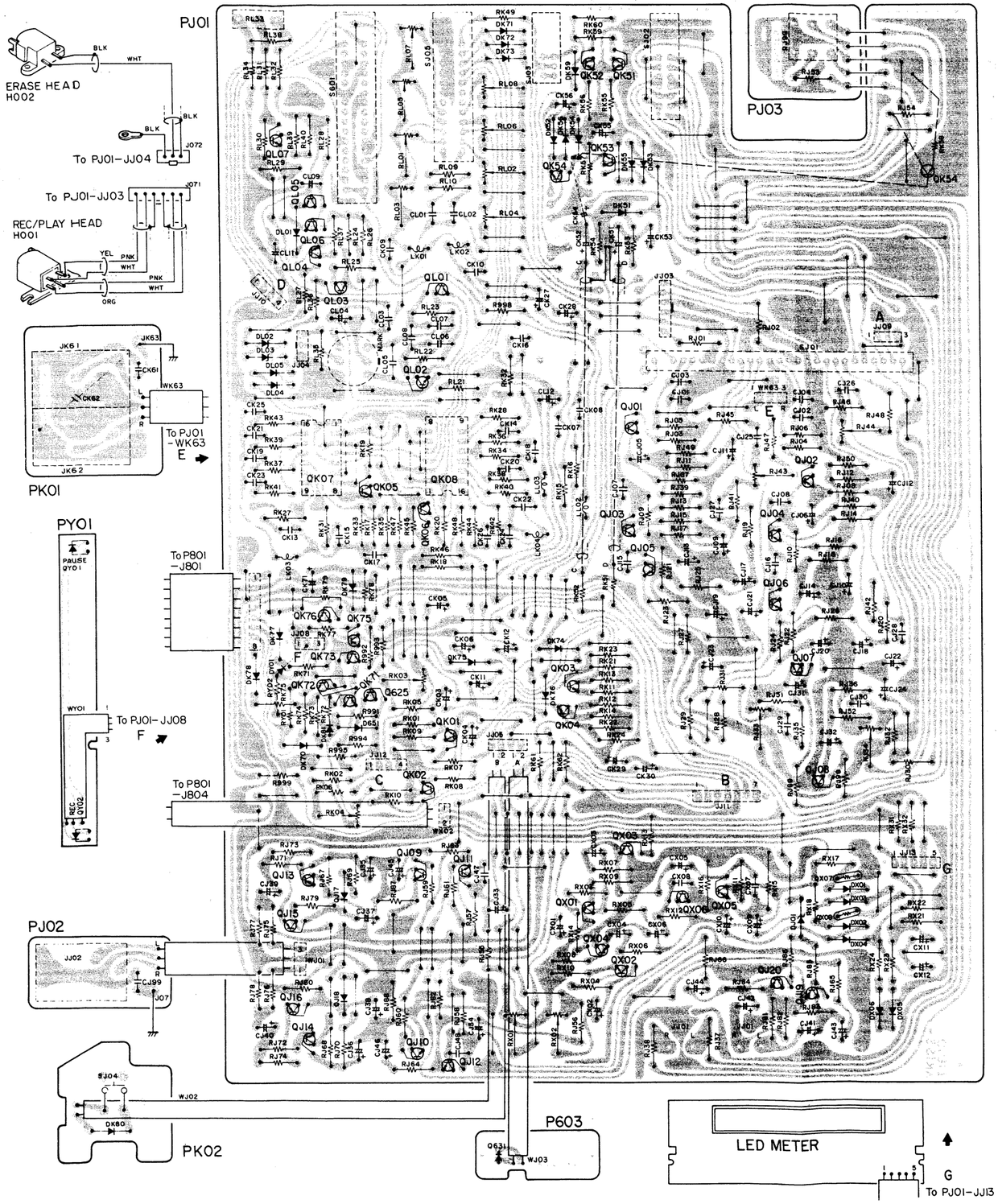
Recording

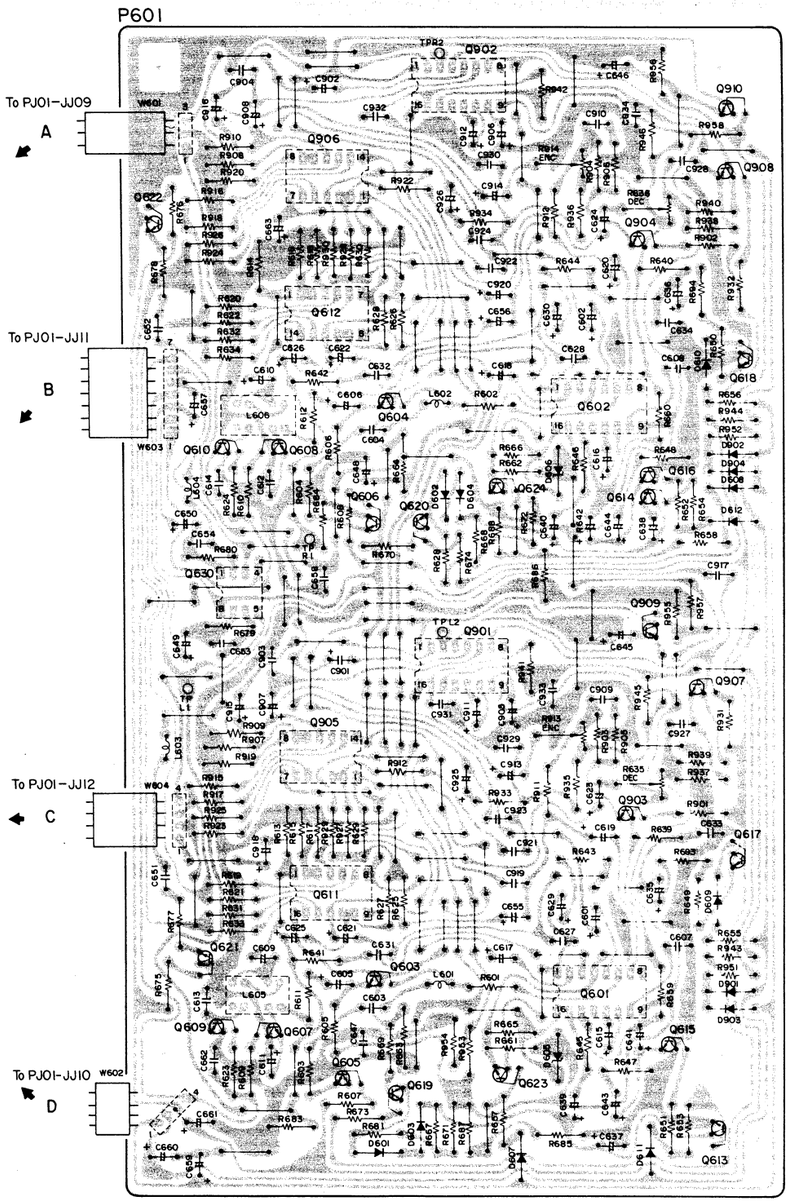


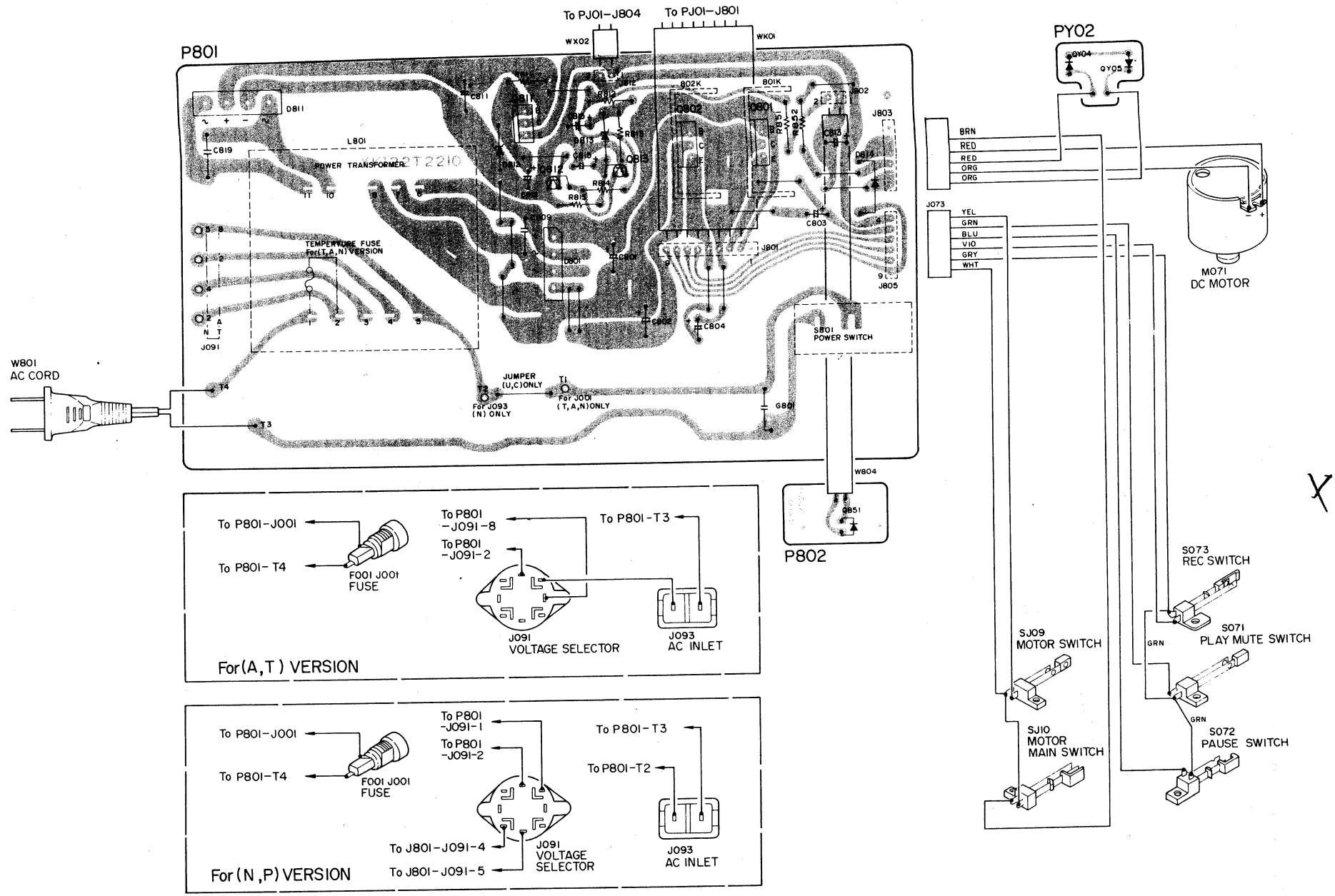
Play



8.2 WIRING DIAGRAM

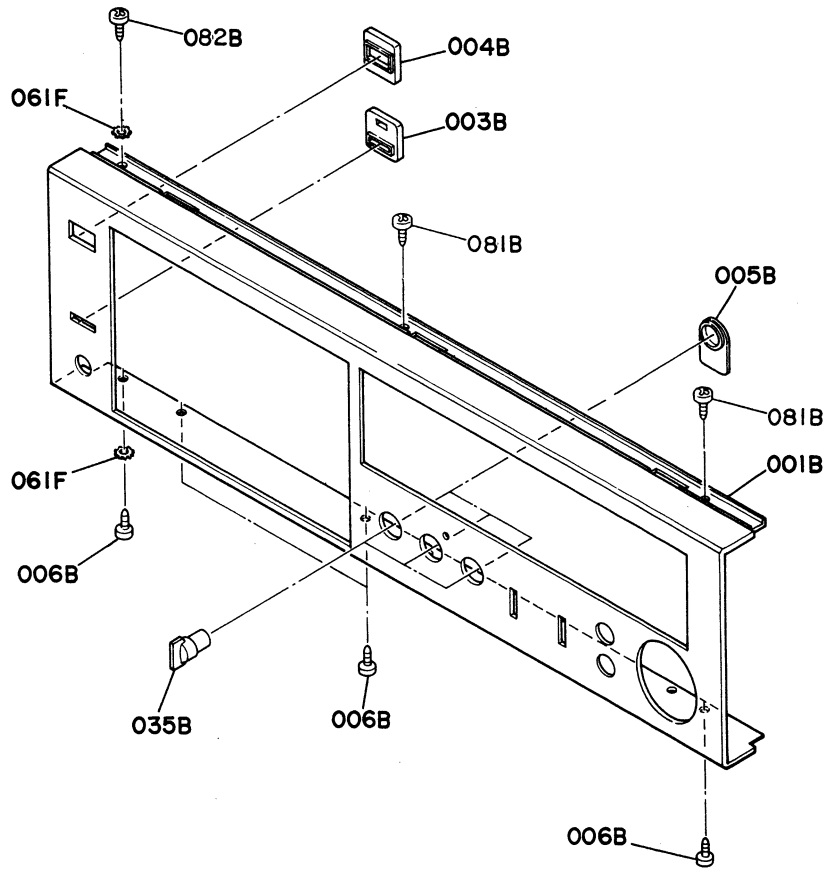





P801
To PJ01-J804
To PJ01-J801
WX02
WK01
D811
C819
L801
POWER TRANSFORMER
TEMPERATURE FUSE
For(T,A,N)VERSION
J091
W801
AC CORD
T4
T3
JUMPER
(U,C)ONLY
For J093
(N) ONLY
For J001
(T,A,N)ONLY
T2
T1
S801
POWER SWITCH
W804
Q851
P802
PY02
QY04
QY05
BRN
RED
RED
ORG
ORG
J073
YEL
GRN
BLU
VIO
GRY
WHT
M071
DC MOTOR
S073
REC SWITCH
S071
PLAY MUTE SWITCH
GRN
GRN
S072
PAUSE SWITCH
SJ09
MOTOR SWITCH
SJ10
MOTOR
MAIN SWITCH
To P801-J001
To P801-T4
F001 J001
FUSE
To P801
-J091-8
To P801
-J091-2
To P801-T3
J091
VOLTAGE SELECTOR
J093
AC INLET
For(A,T) VERSION
To P801-J001
To P801-T4
F001 J001
FUSE
To P801
-J091-1
To P801
-J091-2
To P801-T3
To P801-T2
To J801-J091-4
To J801-J091-5
J091
VOLTAGE
SELECTOR
J093
AC INLET
For(N,P) VERSION

9. EXPLODED VIEWS AND PARTS LIST

9.1 [C01-99] FRONT PANEL

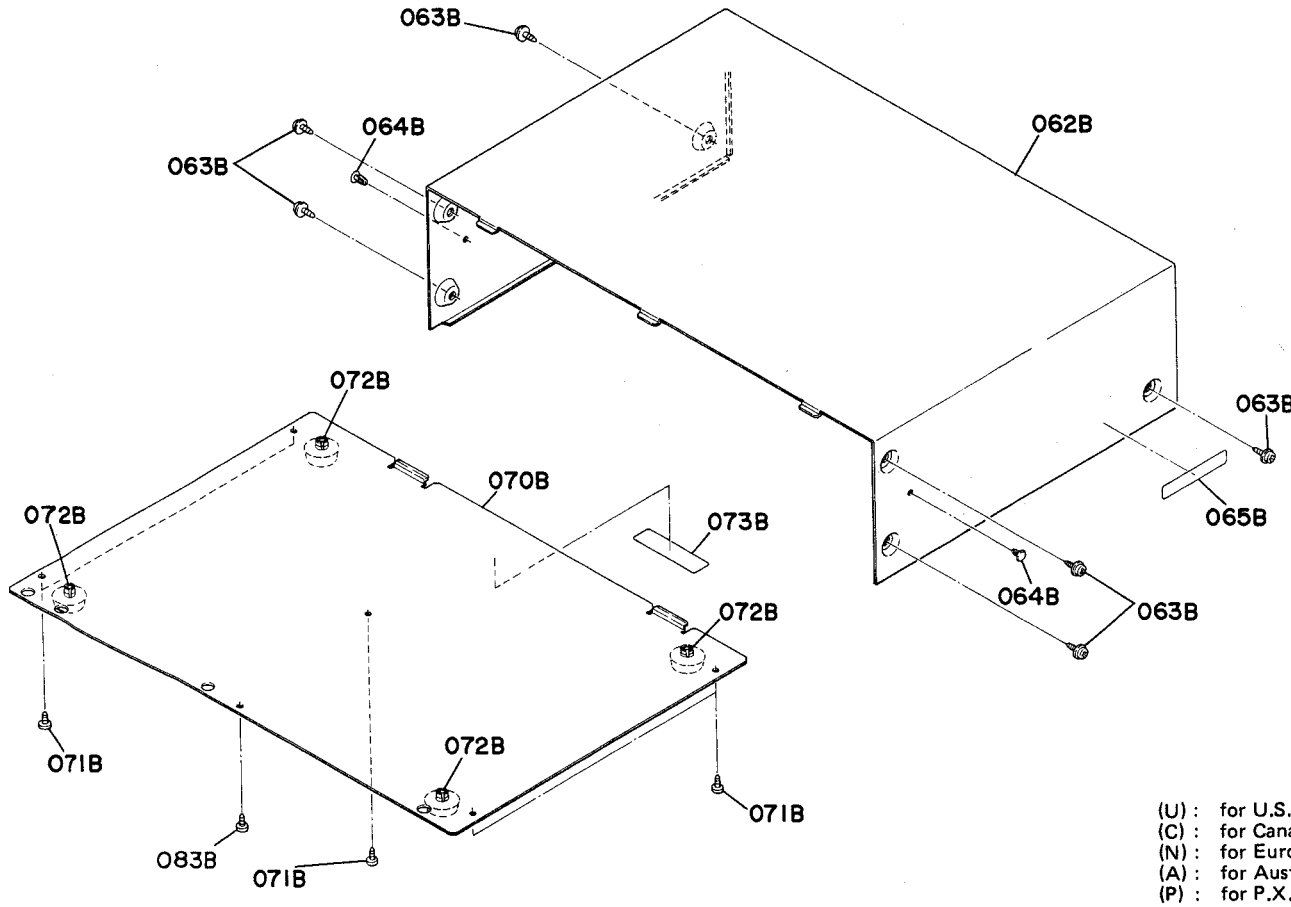


(U) : for U.S.A.
(C) : for Canada
(N) : for Europe
(A) : for Australia
(P) : for P.X.

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
A	1	1	1	1	1	122T063400	Front Panel Assembly
001B	1	1	1	1	1	122T063010	Escutcheon, Front Panel
003B	1	1	1	1	1	120T259020	Bushing, Power
004B	1	1	1	1	1	120T259030	Bushing, Eject
005B	3	3	3	3	3	113T259030	Bushing, Mode

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
006B	4	4	4	4	4	51280306B0	B.H. Tapped Screw B3 x 6
035B	3	3	3	3	3	113T154010	Knob, Bias/Dolby/Tape
081B	2	2	2	2	2	51280310B0	B.H. Tapped screw B3 x 10
082B	1	1	1	1	1	51500310B0	F.H. Tapped Screw F3x10
061F	2	2	2	2	2	54050300R0	T.L. Washer, OR

9.2 [C02-99] TOP COVER AND MAIN CHASSIS

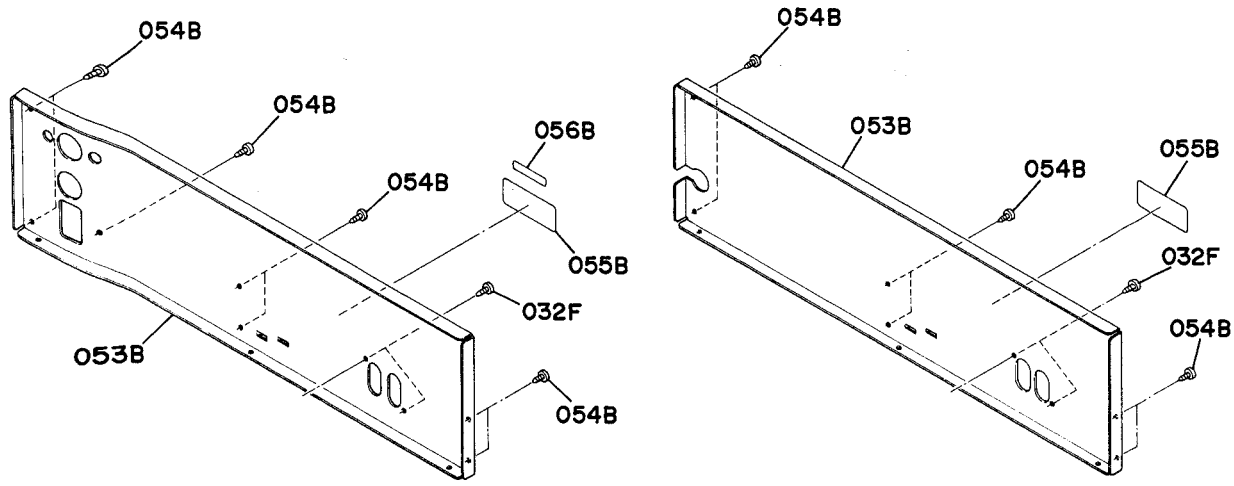


(U) : for U.S.A.
(C) : for Canada
(N) : for Europe
(A) : for Australia
(P) : for P.X.

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
062B	1	1	1	1	1	120T257010	Lid, Top Cover
063B	6	6				51260408Z0	B.T. Screw B4 x 8
063B			6	6	6	51260408U0	B.T. Screw B4 x 8
064B	2	2	2	2	2	2991259110	Bushing
065B	1	1	1	1	1	2932861110	Label

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
070B	1	1	1	1	1	120T257020	Lid, Bottom Cover
071B	6	6	6	6	6	51280308B0	B.H. Tapped Screw B3 x 8
072B	4	4	4	4	4	403H057010	Leg
073B	1	1	1	1	1	2578861010	Label
083B	1	1	1	1	1	51280310B0	B.H. Tapped Screw B3 x 10

9.3 [C03-99] REAR PANEL

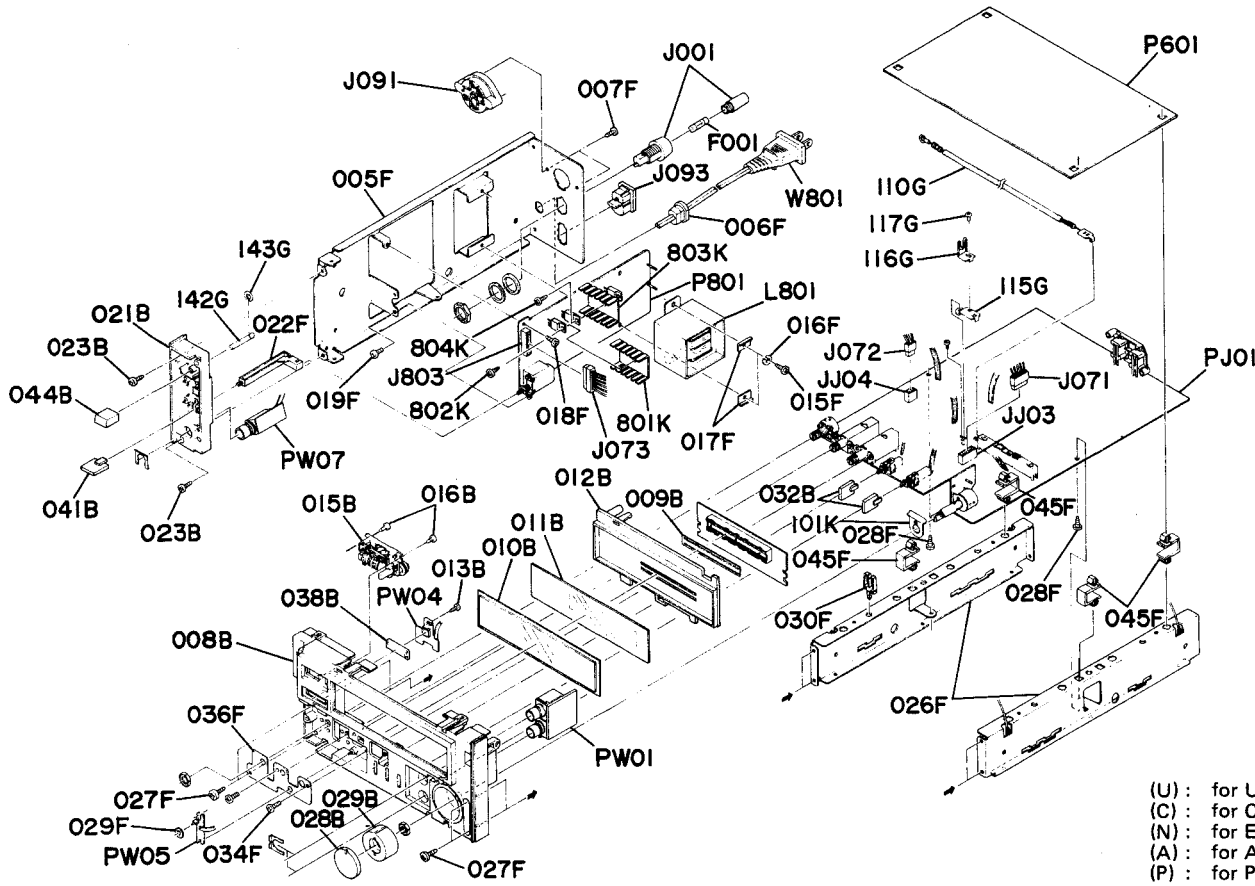


(U) : for U.S.A.
(C) : for Canada
(N) : for Europe
(A) : for Australia
(P) : for P.X.

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
053B	1	1				122T160230	Bracket, Rear Panel
053B			1			122T160220	Bracket, Rear Panel
053B				1		122T160210	Bracket, Rear Panel
053B					1	122T160240	Bracket, Rear Panel

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
054B	6	6	7	7	7	51280308U0	B.H. Tapped Screw B3 x 6
055B	1	1	1	1	1	2112265010	Indicator
056B			1	1		4581861010	Label, Made in Japan
032F	2	2	2	2	2	51280308U0	B.H. Tapped Screw B3 x 8

9.4 [P01-99] P.W. BOARDS AND OTHER PARTS

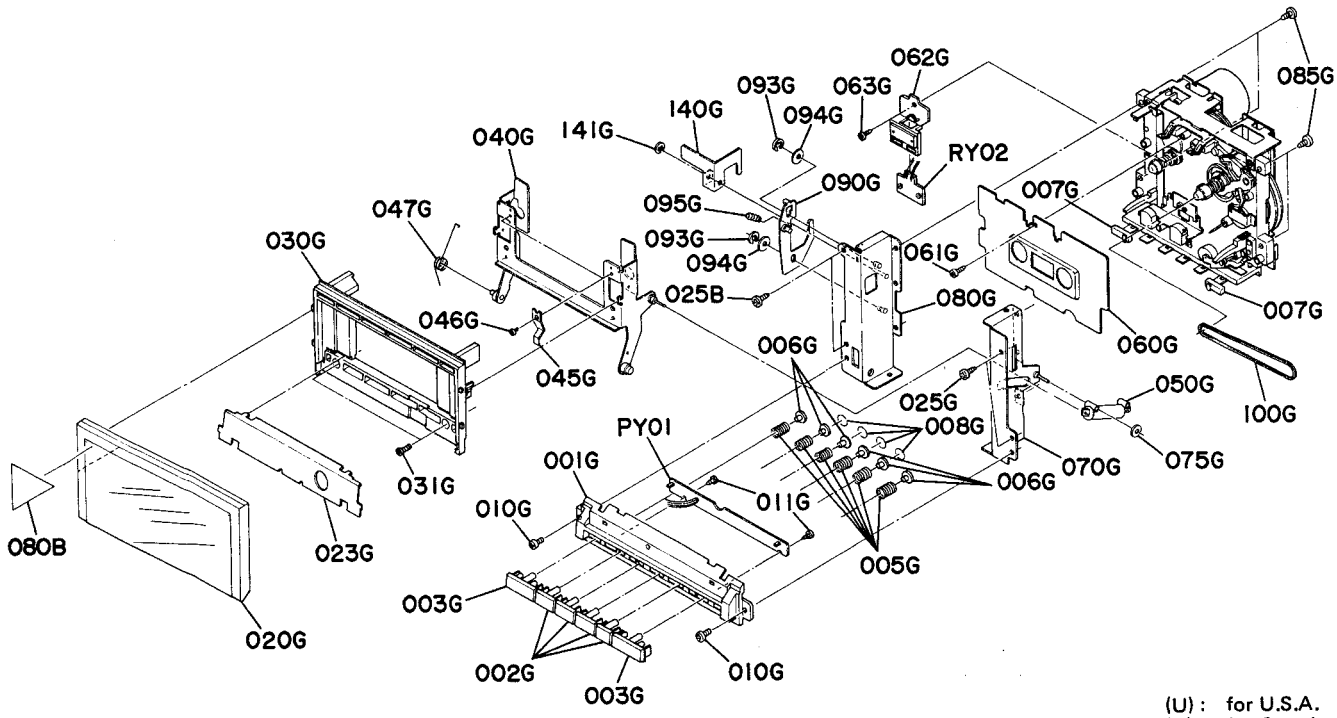


(U) : for U.S.A.
(C) : for Canada
(N) : for Europe
(A) : for Australia
(P) : for P.X.

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
008B	1	1	1	1	1	122T063020	Escutcheon, Meter
009B	1	1	1	1	1	102T303010	Mask, Meter
010B	1	1	1	1	1	122T158010	Window
011B	1	1	1	1	1	122T302010	Dial
012B	1	1	1	1	1	122T160010	Bracket
013B	1	1	1	1	1	51282606B0	B.H. Tapped Screw B2.6 x 6
015B	1	1	1	1	1	120T052010	Counter
016B	2	2	2	2	2	51282608B0	B.H. Tapped Screw B2.6 x 8
021B	1	1	1	1	1	120T063050	Escutcheon, Eject/Power
023B	2	2	2	2	2	51280306B0	B.H. Tapped Screw B3 x 6
028B	1	1	1	1	1	102T154050	Knob, Record Level (L)
029B	1	1	1	1	1	102T154070	Knob, Record Level (R)
032B	2	2	2	2	2	208H154060	Knob, Input/PPS
038B	1	1	1	1	1	120T154030	Knob, Rec Mute
041B	1	1	1	1	1	208H154060	Knob, Power
044B	1	1	1	1	1	120T154020	Knob, Eject
005F	1	1	1	1	1	120T104010	Retainer, Power Supply
006F	1	1				1455259030	Bushing, AC Cord
007F			2	2	2	51280310U0	B.H. Tapped Screw B3 x 10
015F	2	2	2	2	2	51280410B0	B.H. Tapped Screw B4 x 10
016F	2	2	2	2	2	54040402N0	Spring Washer
017F	2	2	2	2	2	4265005010	Clamper
018F	1	1	1	1	1	51280306B0	B.H. Tapped Screw B3 x 6
019F	1	1	1	1	1	51100306A9	B.H.M. Screw B3 x 6
022F	1	1	1	1	1	120T121010	Link, Power Switch
026F	2	2	2	2	2	120T104020	Retainer, Audio
027F	4	4	4	4	4	51280308B0	B.H. Tapped Screw B3 x 8
028F	2	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
029F	1	1	1	1	1	120T118040	Spacer
030F	1	1	1	1	1	2886005040	Clamper
034F	2	2	2	2	2	51100308A0	B.H.M. Screw B3 x 8

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
036F	1	1	1	1	1	120T109010	Shield
041F	1	1	1	1	1	51280308B0	B.H. Tapped Screw B3 x 8
045F	4	4	4	4	4	122T153010	Hinge
110G	1	1	1	1	1	120T125500	Joint, Rec/Play
115G	1	1	1	1	1	120T160040	Bracket
116G	1	1	1	1	1	120T115030	Spring
117G	2	2	2	2	2	51572604A0	P. Taptite Screw P2.6 x 4
142G	1	1	1	1	1	120T254020	Pin, Eject
143G	1	1	1	1	1	64002500R0	RG Ring, E Type
101K	1	1	1	1	1	102T109010	Shield
801K	1	1	1	1	1	202H267030	Heatsink
802K	1	1	1	1	1	51280306B0	B.H. Tapped Screw B3 x 8
803K	1	1	1	1	1	202H267030	Heatsink
804K	1	1	1	1	1	5128030680	B.H. Tapped Screw B3 x 6
⚠F001			1	1		FS10020800	Fuse, T200mA
⚠F001					1	FS10030610	Fuse, 0.3A
⚠J001			1	1		YJ08000290	Jack, Fuse Holder
⚠J001					1	YJ08000300	Jack, Fuse Holder
⚠J071	1	1	1	1	1	YB00400250	Connective Cord, (6P)
J072	1	1	1	1	1	YB00300260	Connective Cord, (3P)
J073	1	1	1	1	1	YB00300530	Connective Cord, (6P)
⚠J091			1	1	1	BY05030040	Voltage Selector
⚠J093			1	1	1	YP04000580	Plug, AC Inlet
⚠L801	1	1				TS15715030	Power Transformer
⚠L801			1			TS15715010	Power Transformer
⚠L801				1		TS15715020	Power Transformer
⚠L801					1	TS15715040	Power Transformer
⚠W801	1	1				YC02000140	A.C. Power Cord

9.5 [P02-99] MECHANISM ASSEMBLY AND PARTS



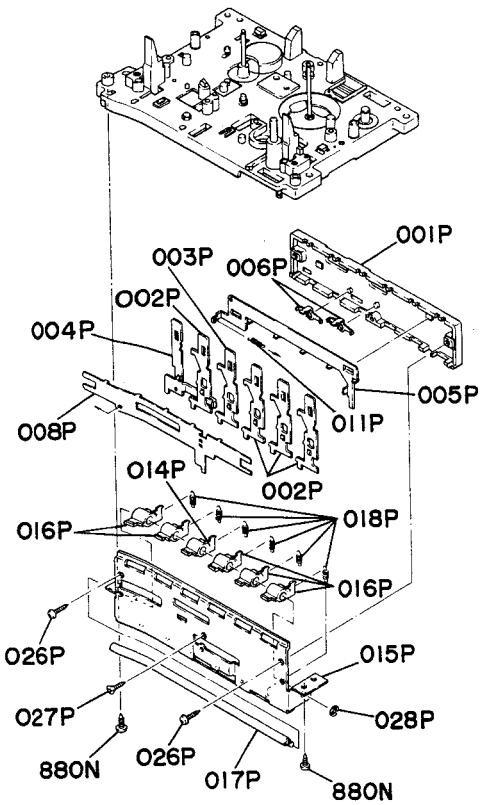
(U) : for U.S.A.
(C) : for Canada
(N) : for Europe
(A) : for Australia
(P) : for P.X.

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
025B	4	4	4	4	4	51280308U0	B.H. Tapped Screw B3 x 8
080B	1	1	1	1	1	113T861010	Label
001G	1	1	1	1	1	120T064010	Case, LED/Mecha Button
002G	4	4	4	4	4	120T270010	Button
003G	2	2	2	2	2	120T270020	Button, Rec/Pause
005G	6	6	6	6	6	120T115060	Spring
006G	6	6	6	6	6	120T254010	Pin
007G	2	2	2	2	2	120T118010	Spacer, Rec/Pause
008G	4	4	4	4	4	120T118030	Spacer
010G	2	2	2	2	2	51062605E0	P.H.M. Screw P2.6 x 5
011G	2	2	2	2	2	51302606B0	P.H. Tapped Screw P2.6 x 6
020G	1	1	1	1	1	120T158500	Window, (K)
023G	1	1	1	1	1	120T063070	Escutcheon
030G	1	1	1	1	1	120T271010	Holder, Cassette
031G	2	2	2	2	2	5110260SS0	B.H.M. Screw B2.6 x 5
040G	1	1	1	1	1	120T104500	Retainer, Cassette
045G	2	2	2	2	2	120T115040	Spring
046G	2	2	2	2	2	5182020250	P.H.M. Screw P2 x 2

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
047G	1	1	1	1	1	120T115020	Spring, Door Open
050G	1	1	1	1	1	120T276010	Piston, Dumper
060G	1	1	1	1	1	120T053020	Cover, Mecha
061G	1	1	1	1	1	51302606U0	P.H. Tapped Screw P2.6 x 6
062G	1	1	1	1	1	120T271020	Holder
063G	1	1	1	1	1	51382608T0	P.H. Tapped Screw P2.6 x 8
070G	1	1	1	1	1	120T160500	Bracket, (R)
075G	1	1	1	1	1	59020805G9	Washer
080G	1	1	1	1	1	120T160510	Bracket, (L)
085G	4	4	4	4	4	51280310U0	B.H. Tapped Screw B3 x 10
090G	1	1	1	1	1	120T054500	Cam, Door Lock
093G	2	2	2	2	2	64000300R0	RG Ring, E Type
094G	2	2	2	2	2	120T118020	Spacer
095G	1	1	1	1	1	120T115080	Spring
100G	1	1	1	1	1	120T264010	Belt, Counter
140G	1	1	1	1	1	120T002010	Arm, Eject
141G	1	1	1	1	1	64002500R0	RG Ring, E Type

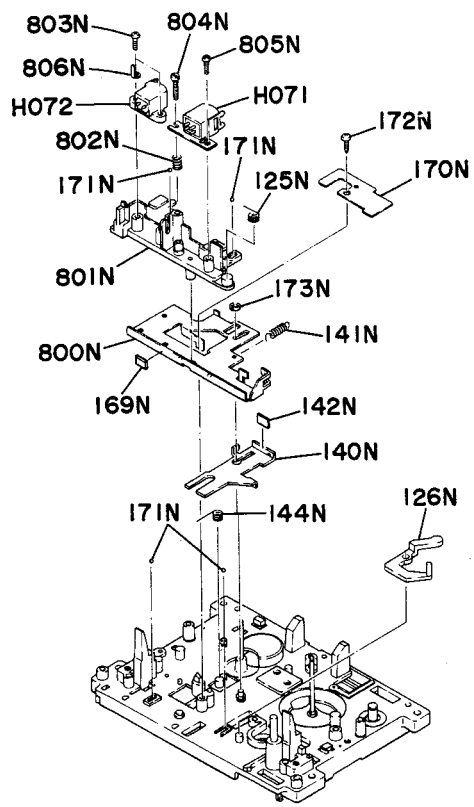
(U) : for U.S.A.
(C) : for Canada
(N) : for Europe
(A) : for Australia
(P) : for P.X.

9.6 [P03-99] OPERATION LEVERS



REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION	
001P	1	1	1	1	1	307Y051010	Guide	
002P	4	4	4	4	4	307Y354130	Lever	
003P	1	1	1	1	1	307Y354140	Lever, Play	
004P	1	1	1	1	1	307Y354150	Lever, Rec	
005P	1	1	1	1	1	307Y354110	Lever, Starter	
006P	2	2	2	2	2	307Y002120	Arm	
008P	1	1	1	1	1	307Y054020	Cam, Button Lock	
011P	1	1	1	1	1	307Y115260	Spring, Lock Cam	
014P	1	1	1	1	1	307Y002220	Arm, Play	
015P	1	1	1	1	1	307Y160020	Bracket	
016P	5	5	5	5	5	307Y002040	Arm	
017P	1	1	1	1	1	307Y112070	Shaft	
018P	6	6	6	6	6	307Y115120	Spring	
026P	2	2	2	2	2	51302608B0	P.H. Tapped Screw	P2.6 x 8
027P	1	1	1	1	1	51502606B0	F.H. Tapped Screw	F2.6 x 6
028P	1	1	1	1	1	64002500R0	RG Ring, E Type	
880N	2	2	2	2	2	51300308B0	P.H. Tapped Screw	P3 x 8

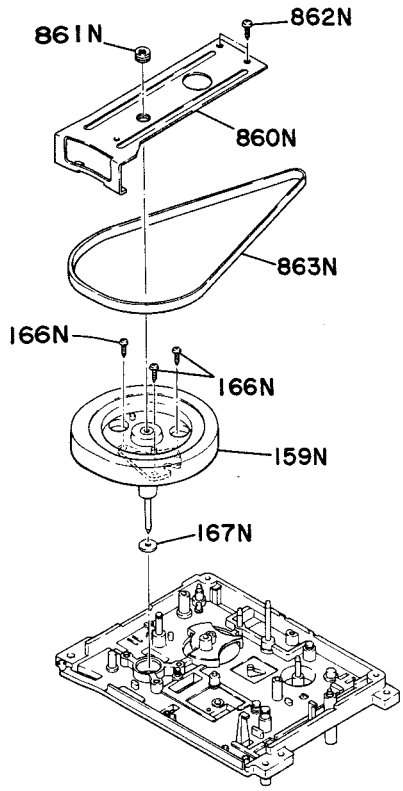
9.7 [P04-99] HEAD CHASSIS



REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION	
125N	1	1	1	1	1	307Y115230	Spring	
126N	1	1	1	1	1	307Y002020	Arm, Take-up	
140N	1	1	1	1	1	307Y354090	Lever	
141N	1	1	1	1	1	307Y115110	Spring	
142N	1	1	1	1	1	307Y056020	Buffer	
144N	1	1	1	1	1	307Y115060	Spring	
169N	1	1	1	1	1	307Y056010	Buffer	
170N	1	1	1	1	1	307Y115030	Spring	
171N	4	4	4	4	4	61020010T0	Ball	
172N	1	1	1	1	1	51302606B0	P.H. Tapped Screw	P2.6 x 6
173N	1	1	1	1	1	64001500R0	RG Ring, E Type	
800N	1	1	1	1	1	307Y105020	Chassis, Head	
801N	1	1	1	1	1	307Y160010	Bracket	
802N	1	1	1	1	1	4380115090	Spring, Azimuth	
803N	2	2	2	2	2	51100214A0	B.H.M. Screw	B2 x 14
804N	1	1	1	1	1	51190213A2	Screw	B2 x 13
805N	1	1	1	1	1	51100214A0	B.H.M. Screw	B2 x 14
806N	1	1	1	1	1	62021030W0	Lug	
H071	1	1	1	1	1	LH42951030	Rec/Play Head	
H072	1	1	1	1	1	LH31000560	Erase Head	

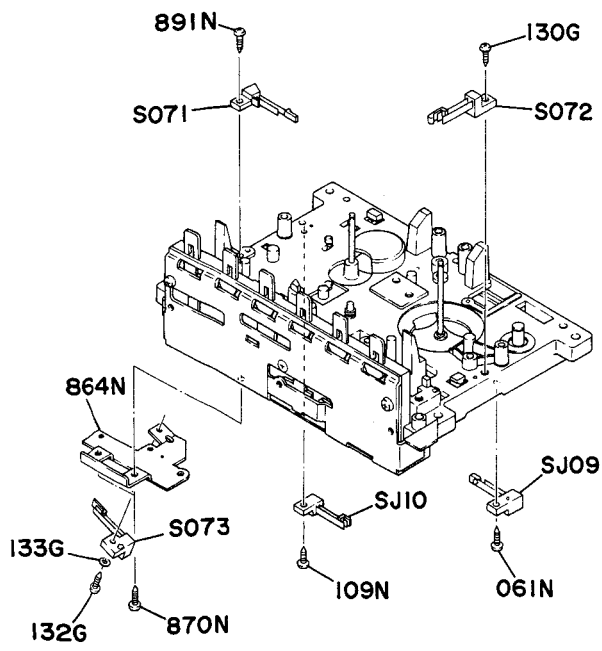
(U) : for U.S.A.
(C) : for Canada
(N) : for Europe
(A) : for Australia
(P) : for P.X.

9.8 [P05-99] FLYWHEEL



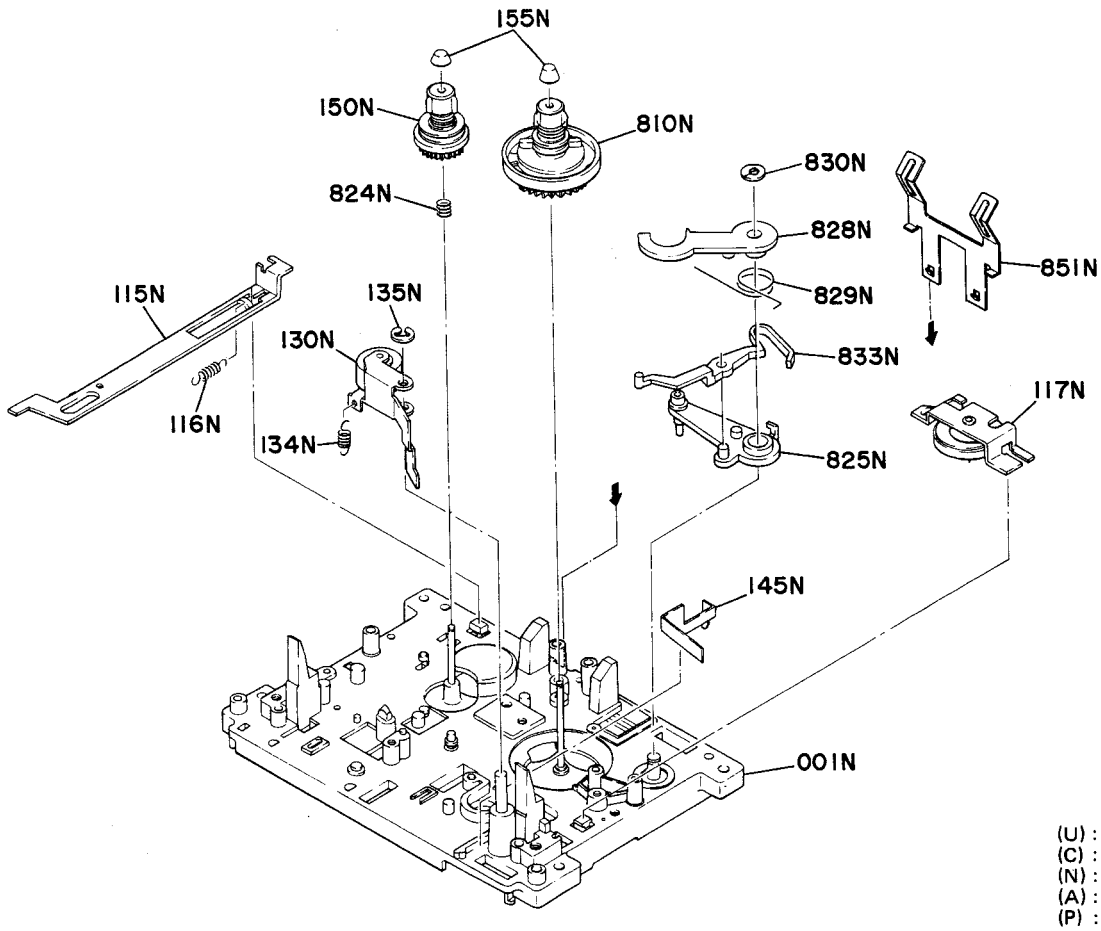
REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION	
159N	1	1	1	1	1	307Y273400	Flywheel Assembly	
166N	3	3	3	3	3	51302608B0	P.H. Tapped Screw	P2.6 x 8
167N	1	1	1	1	1	306Y118010	Spacer	
860N	1	1	1	1	1	307Y104010	Retainer	
861N	1	1	1	1	1	3483164010	Adjuster	
862N	2	2	2	2	2	51572604A0	P. Taptite Screw	P2.6 x 4
863N	1	1	1	1	1	4380264030	Belt, Motor	

9.9 [P07-99] SWITCH LOCATION



REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION	
130G	1	1	1	1	1	51382308P0	P.H. Tapped Screw	P2.3 x 8
132G	1	1	1	1	1	51100205A0	B.H.M. Screw	B2 x 5
133G	1	1	1	1	1	54020201E0	Flat Washer, P.	
061N	1	1	1	1	1	51060204A0	P.H.M. Screw	P2 x 4
109N	1	1	1	1	1	51302608B0	P.H. Tapped Screw	P2.6 x 8
864N	1	1	1	1	1	307Y160080	Bracket	
870N	2	2	2	2	2	51572604A0	P. Taptite Screw	P2.6 x 4
891N	1	1	1	1	1	51302608B0	P.H. Tapped Screw	P2.6 x 8
S071	1	1	1	1	1	SM01010680	Mini Switch, Muting	
S072	1	1	1	1	1	SM01010900	Mini Switch, Pause	
S073	1	1	1	1	1	SM01010910	Mini Switch, Rec	
SJ09	1	1	1	1	1	SM01010850	Mini Switch, Starter	
SJ10	1	1	1	1	1	SM01010870	Mini Switch, Motor	

9.10 [P07-99] PARTS ASSEMBLED ON TOP OF CHASSIS

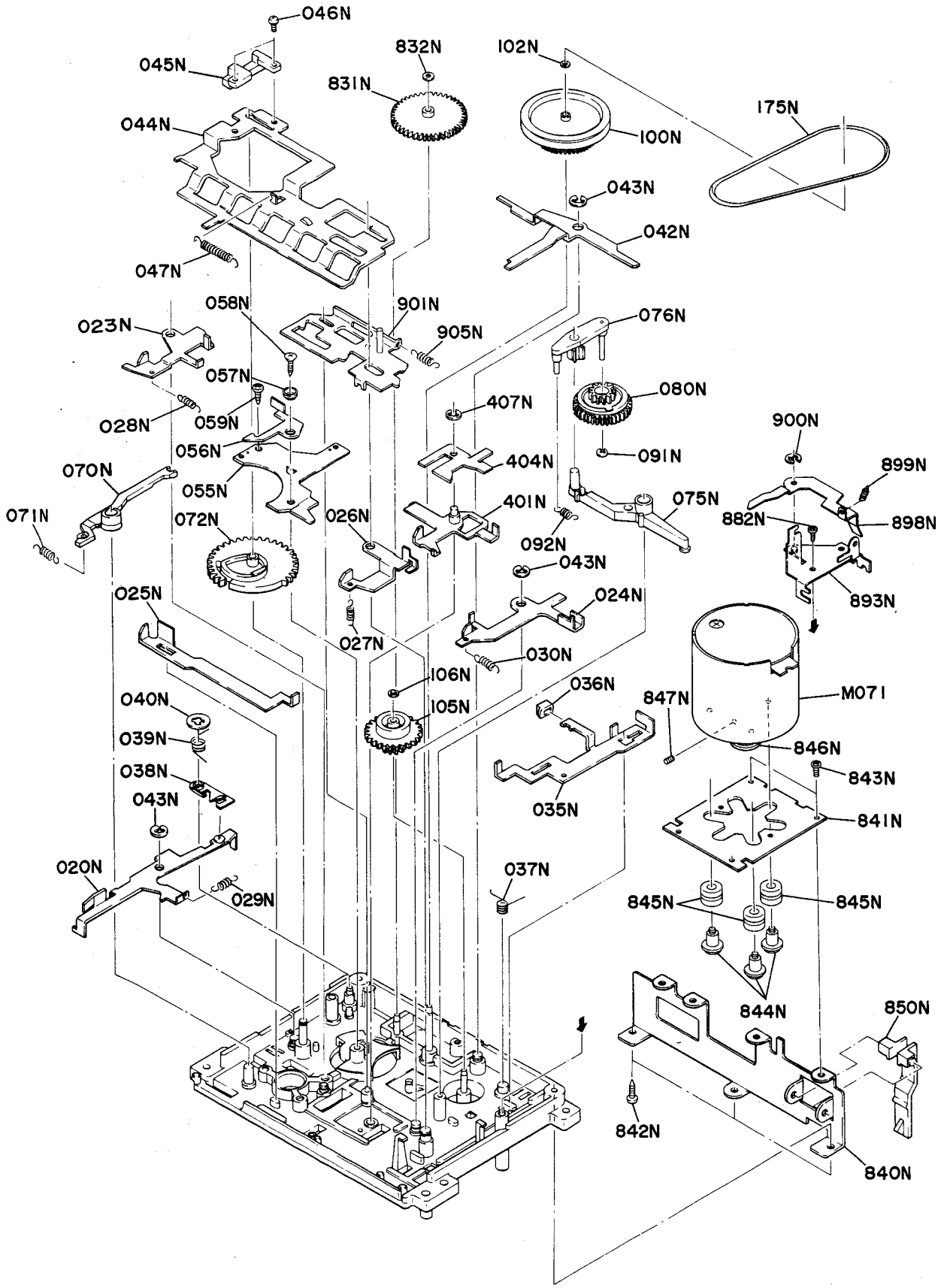


(U) : for U.S.A.
(C) : for Canada
(N) : for Europe
(A) : for Australia
(P) : for P.X.

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
001N	1	1	1	1	1	307Y105400	Chassis Assembly, Main
115N	1	1	1	1	1	307Y354080	Lever, Rec Safety
116N	1	1	1	1	1	307Y115140	Spring
117N	1	1	1	1	1	307Y354410	Lever Assy, Take-up Idler
130N	1	1	1	1	1	307Y002410	Arm, Pinch Roller
134N	1	1	1	1	1	307Y115100	Spring
135N	1	1	1	1	1	64002500R0	RG Ring, E Type
145N	1	1	1	1	1	307Y115040	Spring
150N	1	1	1	1	1	307Y004400	Table Assembly, Supply
155N	2	2	2	2	2	4367067010	Cap

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
810N	1	1	1	1	1	307Y004410	Table Assembly, Take-up
824N	1	1	1	1	1	307Y115250	Spring
825N	1	1	1	1	1	307Y002430	Arm Assembly, TMS
828N	1	1	1	1	1	307Y002060	Arm, TMS Senser
829N	1	1	1	1	1	307Y115070	Spring
830N	1	1	1	1	1	307Y114020	Stopper
833N	1	1	1	1	1	307Y002210	Arm
851N	1	1	1	1	1	307Y115020	Spring, Cassette

9.11 [P08-99] PARTS ASSEMBLED ON REVERSE OF CHASSIS

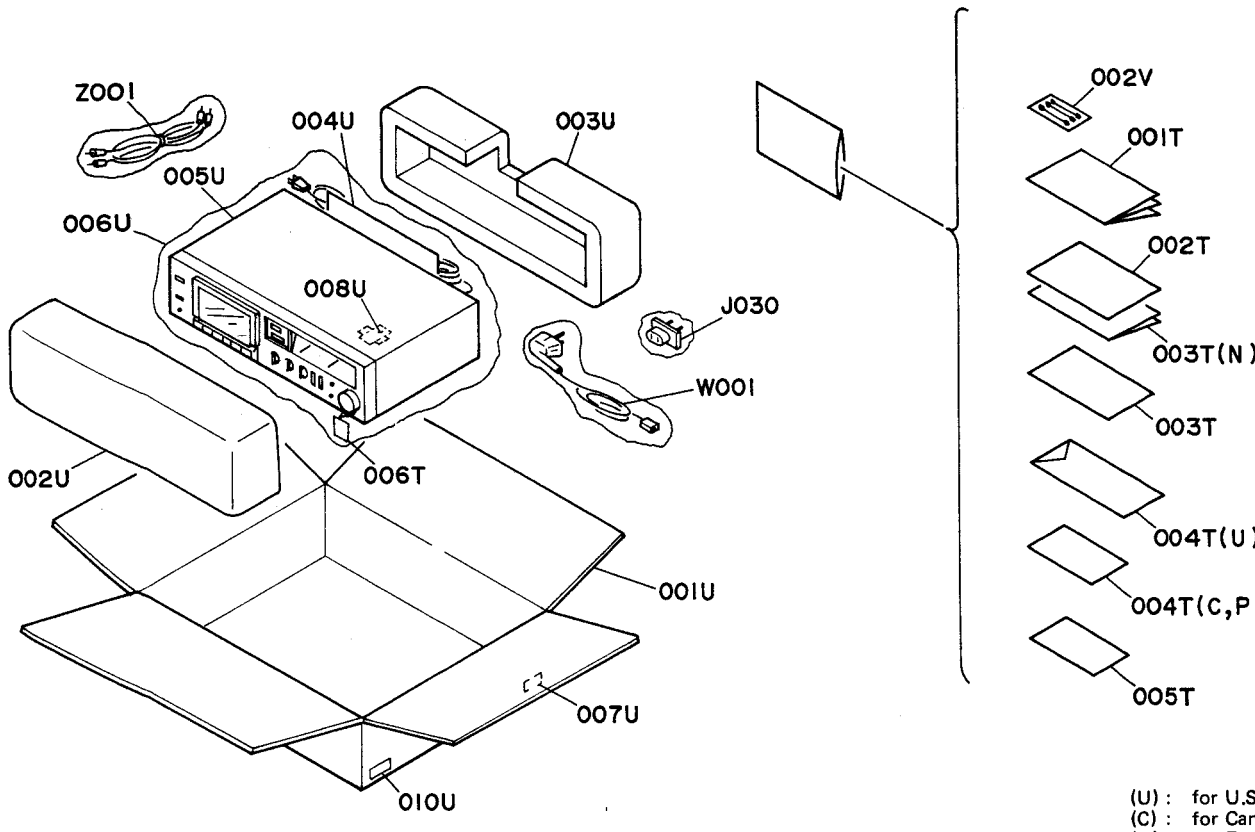


(U) : for U.S.A.
(C) : for Canada
(N) : for Europe
(A) : for Australia
(P) : for P.X.

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
020N	1	1	1	1	1	307Y354400	Lever Assembly, Pause
023N	1	1	1	1	1	307Y354020	Lever, FF
024N	1	1	1	1	1	307Y354030	Lever, REW
025N	1	1	1	1	1	307Y354050	Lever, Stop
026N	1	1	1	1	1	307Y354040	Lever, Rec
027N	1	1	1	1	1	307Y115210	Spring
028N	1	1	1	1	1	307Y115240	Spring
029N	1	1	1	1	1	307Y115240	Spring
030N	1	1	1	1	1	307Y115160	Spring
035N	1	1	1	1	1	307Y354070	Lever, Brake
036N	1	1	1	1	1	4367263010	Brake
037N	1	1	1	1	1	307Y115090	Spring
038N	1	1	1	1	1	307Y054040	Cam, Pause Lock
039N	1	1	1	1	1	307Y115080	Spring
040N	1	1	1	1	1	64020300Q0	RG Ring, CS Type
042N	1	1	1	1	1	307Y002100	Arm
043N	3	3	3	3	3	64000300R0	RG Ring, E Type
044N	1	1	1	1	1	307Y127010	Control Board
045N	1	1	1	1	1	307Y114010	Stopper
046N	2	2	2	2	2	51062604A0	P.H.M. Screw P2.6 x 4
047N	1	1	1	1	1	307Y115150	Spring
055N	1	1	1	1	1	307Y160030	Bracket, Starter SW.
056N	1	1	1	1	1	307Y002110	Arm
057N	1	1	1	1	1	307Y259010	Bushing
058N	1	1	1	1	1	51502610P0	F.H. Tapped Screw F2.6 x 10
059N	1	1	1	1	1	51302608B0	P.H.M. Screw P2.6 x 8
070N	1	1	1	1	1	307Y002030	Arm
071N	1	1	1	1	1	307Y115140	Spring
072N	1	1	1	1	1	307Y058050	Grar, Drive
075N	1	1	1	1	1	307Y002080	Arm, REW
076N	1	1	1	1	1	307Y002400	Arm Assembly, FF/REW
080N	1	1	1	1	1	307Y058400	Gear Assembly
091N	1	1	1	1	1	64001500R0	RG Ring, E Type
092N	1	1	1	1	1	307Y115200	Spring
100N	1	1	1	1	1	307Y262020	Pulley
102N	1	1	1	1	1	307Y118010	Spacer
105N	1	1	1	1	1	307Y058040	Gear, REW
106N	1	1	1	1	1	307Y118010	Spacer
175N	1	1	1	1	1	307Y264020	Belt
401N	1	1	1	1	1	307Y354430	Lever Assembly, Play
404N	1	1	1	1	1	307Y354100	Lever, Brake
407N	1	1	1	1	1	64002500R0	RG Ring, E Type
831N	1	1	1	1	1	307Y058060	Gear, TMS

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
832N	1	1	1	1	1	307Y118010	Spacer
840N	1	1	1	1	1	307Y160040	Bracket
841N	1	1	1	1	1	307Y160050	Bracket, Motor
842N	3	3	3	3	3	51300308B0	P.H. Tapped Screw P3 x 8
843N	2	2	2	2	2	51572604A0	P. Taptite Screw P2.6 x 4
844N	3	3	3	3	3	4367112150	Shaft
845N	3	3	3	3	3	4383259010	Bushing
846N	1	1	1	1	1	307Y262050	Pulley, Motor
847N	1	1	1	1	1	51690305Q9	Socket Screw, HP M3 x 5
850N	1	1	1	1	1	307Y002090	Arm, Rec Safety
882N	1	1	1	1	1	51300308B0	P.H. Tapped Screw P3 x 8
893N	1	1	1	1	1	307Y104400	Retainer Assembly
898N	1	1	1	1	1	307Y002190	Arm
899N	1	1	1	1	1	307Y115140	Spring
900N	1	1	1	1	1	64002500R0	RG Ring, E Type
901N	1	1	1	1	1	307Y054400	Cam Assembly, Lock
905N	1	1	1	1	1	4367115120	Spring
M071	1	1	1	1	1	MM11200170	D.C. Motor, Governor 2200rpm

9.12 [H01-99] PACKING MATERIALS



(U) : for U.S.A.
(C) : for Canada
(N) : for Europe
(A) : for Australia
(P) : for P.X.

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
001T	1					122T851010	Instructions
001T		1	1	1	1	122T851310	Instructions
002T	1					122T851020	Instructions, Spec
002T		1				122T851220	Instructions, Spec
002T			1	1	1	122T851320	Instructions, Spec
003T	1					2818854020	Guarantee Card
003T		1				2818854040	Guarantee Card
003T			1			122T856010	Circuit Diagram
003T				1		9631000090	Guarantee Card
003T					1	2818854010	Guarantee Card
004T	1					2225813010	Envelope
004T		1				9650000050	S. Station Card
004T					1	9650000010	S. Station Card
005T					1	3435851210	Instructions
006T	1	1				9560000100	Hang Tag
001U	1	1				122T801020	Packing Case
001U			1	1		122T801010	Packing Case
001U					1	122T801030	Packing Case
002U	1	1	1	1	1	211H809010	Cushion, Front
003U	1	1	1	1	1	211H809020	Cushion, Rear
004U	1	1				2918107370	Sheet
005U	1	1	1	1	1	2918107350	Sheet
006U	1	1	1	1	1	9090909030	Polyethylene Sheet
007U	2					9526019010	Serial No. Card
007U		4				9526019020	Serial No. Card
007U			4	4		9526019060	Serial No. Card
007U					3	9526019050	Serial No. Card
008U			1			2731821010	Siricagel
010U		2				9510901020	Label
002V	1	1	1	1	1	4136071010	Cleaner
J030					1	YJ04000240	Jack, AC Adaptor
W001			1			ZC01805010	A.C. Power Cord
W001				1		ZC02006020	A.C. Power Cord
W001					1	YC01800170	A.C. Power Cord
Z001	2	2	2	2	2	ZD01000170	Connective Cord

(U) : for U.S.A.
(C) : for Canada
(N) : for Europe
(A) : for Australia
(P) : for P.X.

9.13 ELECTRICAL PARTS LIST

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
							PJ01-MAIN CIRCUIT BOARD
PJ01	1	1	1	1	1	YK122T1610	P.W. Board, Main
	1	1	1	1	1	ZZ122T1610	P.W. Board Assembly
							PJ01-CAPACITORS
CJ01	1	1	1	1	1	DF55681090	Film 680pF ±5%
CJ02	1	1	1	1	1	DF55681090	Film 680pF ±5%
CJ03	1	1	1	1	1	DD15471360	Ceramic 470pF ±5%
CJ04	1	1	1	1	1	DD15471360	Ceramic 470pF ±5%
CJ05	1	1	1	1	1	EA22700630	Elect 220μF 6.3V
CJ06	1	1	1	1	1	EA22700630	Elect 220μF 6.3V
CJ07	1	1	1	1	1	DD15470370	Ceramic 47pF ±5%
CJ08	1	1	1	1	1	DD15470370	Ceramic 47pF ±5%
CJ09	1	1	1	1	1	EA10701630	Elect 100μF 16V
CJ10	1	1	1	1	1	EA10701630	Elect 100μF 16V
CJ11	1	1	1	1	1	EA10701630	Elect 100μF 16V
CJ12	1	1	1	1	1	EA10701630	Elect 100μF 16V
CJ13	1	1	1	1	1	EA10701630	Elect 100μF 16V
CJ14	1	1	1	1	1	EA10701630	Elect 100μF 16V
CJ15	1	1	1	1	1	DD15101370	Ceramic 100pF ±5%
CJ16	1	1	1	1	1	DD15101370	Ceramic 100pF ±5%
CJ17	1	1	1	1	1	EA10701630	Elect 100μF 16V
CJ18	1	1	1	1	1	EA10701630	Elect 100μF 16V
CJ19	1	1	1	1	1	EA10701630	Elect 100μF 16V
CJ20	1	1	1	1	1	EA10701630	Elect 100μF 16V
CJ21	1	1	1	1	1	EA33601030	Elect 33μF 10V
CJ22	1	1	1	1	1	EA33601030	Elect 33μF 10V
CJ23	1	1	1	1	1	EA10601630	Elect 10μF 16V
CJ24	1	1	1	1	1	EA10601630	Elect 10μF 16V
CJ25	1	1	1	1	1	DF15102300	Film 0.001μF ±5%
CJ26	1	1	1	1	1	DF15102300	Film 0.001μF ±5%
CJ27	1	1	1	1	1	DF15223350	Film 0.022μF ±5%
CJ28	1	1	1	1	1	DF15223350	Film 0.022μF ±5%
CJ29	1	1	1	1	1	DF15103350	Film 0.01μF ±5%
CJ30	1	1	1	1	1	DF15103350	Film 0.01μF ±5%
CJ31	1	1	1	1	1	EA47405030	Elect 0.47μF 50V
CJ32	1	1	1	1	1	EA47405030	Elect 0.47μF 50V
CJ33	1	1	1	1	1	EA10601630	Elect 10μF 16V
CJ34	1	1	1	1	1	EA10601630	Elect 10μF 16V
CJ35	1	1	1	1	1	EA10601630	Elect 10μF 16V
CJ36	1	1	1	1	1	EA10601630	Elect 10μF 16V
CJ37	1	1	1	1	1	EA10601630	Elect 10μF 16V
CJ38	1	1	1	1	1	EA10601630	Elect 10μF 16V
CJ39	1	1	1	1	1	EA10701630	Elect 100μF 16V
CJ40	1	1	1	1	1	EA10701630	Elect 100μF 16V
CJ41	1	1	1	1	1	EA10601630	Elect 10μF 16V
CJ42	1	1	1	1	1	EA10601630	Elect 10μF 16V
CJ43	1	1	1	1	1	EA10601630	Elect 10μF 16V
CJ44	1	1	1	1	1	EA10601630	Elect 10μF 16V
CJ45	1	1	1	1	1	EA10601630	Elect 10μF 16V
CJ46	1	1	1	1	1	EA10601630	Elect 10μF 16V
CJ47	1	1	1	1	1	DD15560370	Ceramic 56pF ±5%
CJ48	1	1	1	1	1	DD15560370	Ceramic 56pF ±5%

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
CK03	1	1	1	1	1	EA47503530	Elect 4.7μF 35V
CK04	1	1	1	1	1	EA47503530	Elect 4.7μF 35V
CK05	1	1	1	1	1	EA10601630	Elect 10μF 16V
CK06	1	1	1	1	1	EA10601630	Elect 10μF 16V
CK07	1	1	1	1	1	DF15152300	Film 1500pF ±5%
CK08	1	1	1	1	1	DF15152300	Film 1500pF ±5%
CK09	1	1	1	1	1	DF55101510	Film 100pF ±5%
CK10	1	1	1	1	1	DF55101510	Film 100pF ±5%
CK11	1	1	1	1	1	EA33405030	Elect 0.33μF 50V
CK12	1	1	1	1	1	EA33405030	Elect 0.33μF 50V
CK13	1	1	1	1	1	DF15333350	Film 0.033μF ±5%
CK14	1	1	1	1	1	DF15333350	Film 0.033μF ±5%
CK15	1	1	1	1	1	DF15563350	Film 0.056μF ±5%
CK16	1	1	1	1	1	DF15563350	Film 0.056μF ±5%
CK17	1	1	1	1	1	DF15223350	Film 0.022μF ±5%
CK18	1	1	1	1	1	DF15223350	Film 0.022μF ±5%
CK19	1	1	1	1	1	DF15223350	Film 0.022μF ±5%
CK20	1	1	1	1	1	DF15223350	Film 0.022μF ±5%
CK21	1	1	1	1	1	DF15183350	Film 0.018μF ±5%
CK22	1	1	1	1	1	DF15183350	Film 0.018μF ±5%
CK23	1	1	1	1	1	DF15183350	Film 0.018μF ±5%
CK24	1	1	1	1	1	DF15183350	Film 0.018μF ±5%
CK25	1	1	1	1	1	DF15153350	Film 0.015μF ±5%
CK26	1	1	1	1	1	DF15153350	Film 0.015μF ±5%
CK27	1	1	1	1	1	EA10601630	Elect 10μF 16V
CK28	1	1	1	1	1	EA10601630	Elect 10μF 16V
CK29	1	1	1	1	1	EA22601630	Elect 22μF 16V
CK30	1	1	1	1	1	EA22601630	Elect 22μF 16V
CK51	1	1	1	1	1	EA10601630	Elect 10μF 16V
CK52	1	1	1	1	1	EA10601630	Elect 10μF 16V
CK53	1	1	1	1	1	EA10601630	Elect 10μF 16V
CK54	1	1	1	1	1	EA10601630	Elect 10μF 16V
CK55	1	1	1	1	1	EA33601630	Elect 33μF 16V
CK56	1	1	1	1	1	EA33601630	Elect 33μF 16V
CK71	1	1	1	1	1	EA10702530	Elect 100μF 25V
CL01	1	1	1	1	1	DF55221510	Film 220pF ±5%
CL02	1	1	1	1	1	DF55221510	Film 220pF ±5%
CL03	1	1	1	1	1	DF75152510	Film 1500pF ±5%
CL04	1	1	1	1	1	EA22505030	Elect 2.2μF 50V
CL05	1	1	1	1	1	DF75223510	Film 0.022μF ±5%
CL06	1	1	1	1	1	DF75222510	Film 2200pF ±5%
CL07	1	1	1	1	1	DF75222510	Film 2200pF ±5%
CL08	1	1	1	1	1	DF75682510	Film 6800pF ±5%
CL09	1	1	1	1	1	EQ10505030	Elect 1μF 50V
CL11	1	1	1	1	1	EQ10505030	Elect 1μF 50V
CL12	1	1	1	1	1	EA10505030	Elect 1μF 50V
CX01	1	1	1	1	1	EA10601630	Elect 10μF 16V
CX02	1	1	1	1	1	EA10601630	Elect 10μF 16V
CX03	1	1	1	1	1	EA10505030	Elect 1μF 50V
CX04	1	1	1	1	1	EA10505030	Elect 1μF 50V
CX05	1	1	1	1	1	EA10505030	Elect 1μF 50V
CX06	1	1	1	1	1	EA10505030	Elect 1μF 50V
CX07	1	1	1	1	1	DD15560370	Ceramic 56pF ±5%
CX08	1	1	1	1	1	DD15560370	Ceramic 56pF ±5%
CX09	1	1	1	1	1	EA33601630	Elect 33μF 16V
CX10	1	1	1	1	1	EA33601630	Elect 33μF 16V
CX11	1	1	1	1	1	EA22505030	Elect 2.2μF 50V
CX12	1	1	1	1	1	EA22505030	Elect 2.2μF 50V

(U) : for U.S.A.
(C) : for Canada
(N) : for Europe
(A) : for Australia
(P) : for P.X.

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
							PJ01-RESISTORS (All Resistors are ±5% & ¼W)
RJ01	1	1	1	1	1	GD05100140	10Ω
RJ02	1	1	1	1	1	GD05100140	10Ω
RJ03	1	1	1	1	1	GD05823140	82KΩ
RJ04	1	1	1	1	1	GD05823140	82KΩ
RJ05	1	1	1	1	1	GD05123140	12KΩ
RJ06	1	1	1	1	1	GD05123140	12KΩ
RJ07	1	1	1	1	1	GD05124140	120KΩ
RJ08	1	1	1	1	1	GD05124140	120KΩ
RJ09	1	1	1	1	1	GD05183140	18KΩ
RJ10	1	1	1	1	1	GD05183140	18KΩ
RJ11	1	1	1	1	1	GD05680140	68Ω
RJ12	1	1	1	1	1	GD05680140	68Ω
RJ13	1	1	1	1	1	GD05123140	12KΩ
RJ14	1	1	1	1	1	GD05123140	12KΩ
RJ15	1	1	1	1	1	GD05101140	100Ω
RJ16	1	1	1	1	1	GD05101140	100Ω
RJ17	1	1	1	1	1	GD05102140	1KΩ
RJ18	1	1	1	1	1	GD05102140	1KΩ
RJ19	1	1	1	1	1	GD05102140	1KΩ
RJ20	1	1	1	1	1	GD05102140	1KΩ
RJ21	1	1	1	1	1	GD05102140	1KΩ
RJ22	1	1	1	1	1	GD05102140	1KΩ
RJ23	1	1	1	1	1	GD05332140	3.3KΩ
RJ24	1	1	1	1	1	GD05332140	3.3KΩ
⚠RJ25	1	1	1	1	1	GD05101140	100Ω
⚠RJ26	1	1	1	1	1	GD05101140	100Ω
RJ27	1	1	1	1	1	GD05101140	100Ω
RJ28	1	1	1	1	1	GD05101140	100Ω
RJ29	1	1	1	1	1	GD05103140	10KΩ
RJ30	1	1	1	1	1	GD05103140	10KΩ
RJ31	1	1	1	1	1	GD05562140	5.6KΩ
RJ32	1	1	1	1	1	GD05562140	5.6KΩ
RJ33	1	1	1	1	1	RA05030090	50KΩ, Trim., Play Level
RJ34	1	1	1	1	1	RA05030090	50KΩ, Trim., Play Level
RJ35	1	1	1	1	1	GD05562140	5.6KΩ
RJ36	1	1	1	1	1	GD05562140	5.6KΩ
RJ37	1	1	1	1	1	GD05822140	8.2KΩ
RJ38	1	1	1	1	1	GD05822140	8.2KΩ
RJ39	1	1	1	1	1	GD05152140	1.5KΩ
RJ40	1	1	1	1	1	GD05152140	1.5KΩ
RJ41	1	1	1	1	1	GD05184140	180KΩ
RJ42	1	1	1	1	1	GD05184140	180KΩ
RJ43	1	1	1	1	1	RA03020030	3KΩ, Trim., Play EQ
RJ44	1	1	1	1	1	RA03020030	3KΩ, Trim., Play EQ
RJ45	1	1	1	1	1	GD05272140	2.7KΩ
RJ46	1	1	1	1	1	GD05272140	2.7KΩ
RJ47	1	1	1	1	1	GD05182140	1.8KΩ
RJ48	1	1	1	1	1	GD05182140	1.8KΩ
RJ49	1	1	1	1	1	GD05183140	18KΩ
RJ50	1	1	1	1	1	GD05183140	18KΩ
RJ51	1	1	1	1	1	GD05224140	220KΩ
RJ52	1	1	1	1	1	GD05224140	220KΩ
RJ54	1	1	1	1	1	GD05392140	3.9KΩ
RJ55	1	1	1	1	1	GD05102140	1KΩ
RJ56	1	1	1	1	1	GD05102140	1KΩ
RJ57	1	1	1	1	1	GD05224140	220KΩ
RJ58	1	1	1	1	1	GD05224140	220KΩ
RJ59	1	1	1	1	1	GD05222140	2.2KΩ
RJ60	1	1	1	1	1	GD05222140	2.2KΩ
RJ61	1	1	1	1	1	GD05102140	1KΩ

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
RJ62	1	1	1	1	1	GD05102140	1KΩ
RJ63	1	1	1	1	1	GD05472140	4.7KΩ
RJ64	1	1	1	1	1	GD05472140	4.7KΩ
RJ65	1	1	1	1	1	GD05272140	2.7KΩ
RJ66	1	1	1	1	1	GD05272140	2.7KΩ
RJ67	1	1	1	1	1	GD05153140	15KΩ
RJ68	1	1	1	1	1	GD05153140	15KΩ
RJ69	1	1	1	1	1	GD05102140	1KΩ
RJ70	1	1	1	1	1	GD05102140	1KΩ
⚠RJ71	1	1	1	1	1	GD05100140	10Ω
⚠RJ72	1	1	1	1	1	GD05100140	10Ω
⚠RJ73	1	1	1	1	1	GD05100140	10Ω
⚠RJ74	1	1	1	1	1	GD05100140	10Ω
RJ75	1	1	1	1	1	GD05220140	22Ω
RJ76	1	1	1	1	1	GD05220140	22Ω
RJ77	1	1	1	1	1	GD05220140	22Ω
RJ78	1	1	1	1	1	GD05220140	22Ω
RJ79	1	1	1	1	1	GD05153140	15KΩ
RJ80	1	1	1	1	1	GD05153140	15KΩ
RJ81	1	1	1	1	1	GD05104140	100KΩ
RJ82	1	1	1	1	1	GD05104140	100KΩ
RJ83	1	1	1	1	1	GD05224140	220KΩ
RJ84	1	1	1	1	1	GD05224140	220KΩ
RJ85	1	1	1	1	1	GD05222140	2.2KΩ
RJ86	1	1	1	1	1	GD05222140	2.2KΩ
RJ87	1	1	1	1	1	GD05104140	100KΩ
RJ88	1	1	1	1	1	GD05104140	100KΩ
RJ89	1	1	1	1	1	GD05562140	5.6KΩ
RJ90	1	1	1	1	1	GD05562140	5.6KΩ
RK01	1	1	1	1	1	GD05102140	1KΩ
RK02	1	1	1	1	1	GD05102140	1KΩ
RK03	1	1	1	1	1	RA02030060	20KΩ(B), Trim.
RK04	1	1	1	1	1	RA02030060	20KΩ(B), Trim.
RK05	1	1	1	1	1	GD05222140	2.2KΩ
RK06	1	1	1	1	1	GD05222140	2.2KΩ
RK07	1	1	1	1	1	GD05222140	2.2KΩ
RK08	1	1	1	1	1	GD05222140	2.2KΩ
RK09	1	1	1	1	1	GD05104140	100KΩ
RK10	1	1	1	1	1	GD05104140	100KΩ
RK11	1	1	1	1	1	GD05102140	1KΩ
RK12	1	1	1	1	1	GD05102140	1KΩ
RK13	1	1	1	1	1	GD05472140	4.7KΩ
RK14	1	1	1	1	1	GD05472140	4.7KΩ
RK15	1	1	1	1	1	GD05103140	10KΩ
RK16	1	1	1	1	1	GD05103140	10KΩ
RK17	1	1	1	1	1	GD05563140	56KΩ
RK18	1	1	1	1	1	GD05563140	56KΩ
RK19	1	1	1	1	1	GD05103140	10KΩ
RK20	1	1	1	1	1	GD05103140	10KΩ
RK21	1	1	1	1	1	GD05334140	330KΩ
RK22	1	1	1	1	1	GD05334140	330KΩ
RK23	1	1	1	1	1	GD05563140	56KΩ
RK24	1	1	1	1	1	GD05563140	56KΩ
RK27	1	1	1	1	1	GD05272140	2.7KΩ
RK28	1	1	1	1	1	GD05272140	2.7KΩ

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(P) : for P.X.

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
RK31	1	1	1	1	1	GD05122140	1.2KΩ
RK32	1	1	1	1	1	GD05122140	1.2KΩ
RK33	1	1	1	1	1	GD05222140	2.2KΩ
RK34	1	1	1	1	1	GD05222140	2.2KΩ
RK35	1	1	1	1	1	GD05822140	8.2KΩ
RK36	1	1	1	1	1	GD05822140	8.2KΩ
RK37	1	1	1	1	1	GD05151140	150Ω
RK38	1	1	1	1	1	GD04151140	150Ω
RK39	1	1	1	1	1	GD05101140	100Ω
RK40	1	1	1	1	1	GD05101140	100Ω
RK41	1	1	1	1	1	GD05121140	120Ω
RK42	1	1	1	1	1	GD05121140	120Ω
RK43	1	1	1	1	1	GD05101140	100Ω
RK44	1	1	1	1	1	GD05101140	100Ω
RK45	1	1	1	1	1	GD05562140	5.6K
RK46	1	1	1	1	1	GD05562140	5.6K
RK47	1	1	1	1	1	GD05473140	47KΩ
RK48	1	1	1	1	1	GD05473140	47KΩ
RK49	1	1	1	1	1	GD05101140	100Ω
RK51	1	1	1	1	1	GD05562140	5.6KΩ
RK52	1	1	1	1	1	GD05562140	5.6KΩ
RK53	1	1	1	1	1	GD05103140	10KΩ
RK54	1	1	1	1	1	GD05103140	10KΩ
RK55	1	1	1	1	1	GD05105140	1MΩ
RK56	1	1	1	1	1	GD05105140	1MΩ
RK57	1	1	1	1	1	GD05151140	150Ω
RK58	1	1	1	1	1	GD05151140	150Ω
RK59	1	1	1	1	1	GD05103140	10KΩ
RK60	1	1	1	1	1	GD05103140	10KΩ
⚠RK61	1	1	1	1	1	GD05101140	100Ω
⚠RK62	1	1	1	1	1	GD05101140	100Ω
RK71	1	1	1	1	1	GD05821140	820Ω
RK72	1	1	1	1	1	GD05103140	10KΩ
RK73	1	1	1	1	1	GD05103140	100Ω
RK74	1	1	1	1	1	GD05103140	10KΩ
RK75	1	1	1	1	1	GD05103140	10KΩ
RK77	1	1	1	1	1	GD05223140	22KΩ
RK78	1	1	1	1	1	GD05123140	12KΩ
RK79	1	1	1	1	1	GD05223140	22KΩ
RL01	1	1	1	1	1	RA05030290	50KΩ(B), Trimming
RL02	1	1	1	1	1	RA05030290	50KΩ(B), Trimming
RL03	1	1	1	1	1	RA05030290	50KΩ(B), Trimming
RL04	1	1	1	1	1	RA05030290	50KΩ(B), Trimming
RL05	1	1	1	1	1	RA05030290	50KΩ(B), Trimming
RL06	1	1	1	1	1	RA05030290	50KΩ(B), Trimming
RL07	1	1	1	1	1	RA05030290	50KΩ(B), Trimming
RL08	1	1	1	1	1	RA05030290	50KΩ(B), Trimming
RL09	1	1	1	1	1	GD05103140	10KΩ
RL10	1	1	1	1	1	GD05103140	10KΩ
⚠RL21	1	1	1	1	1	GD05100140	10Ω
RL22	1	1	1	1	1	GD05333140	33KΩ
RL23	1	1	1	1	1	GD05333140	33KΩ
RL24	1	1	1	1	1	GD05393140	39KΩ
RL25	1	1	1	1	1	GD05782140	1.8KΩ
RL26	1	1	1	1	1	GD05222140	2.2KΩ
RL27	1	1	1	1	1	GD05562140	5.6KΩ
RL28	1	1	1	1	1	GD05123140	12KΩ
RL29	1	1	1	1	1	GD05391140	390Ω
RL30	1	1	1	1	1	GD05223140	22KΩ

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
RL31	1	1	1	1	1	GD05102140	1KΩ
RL32	1	1	1	1	1	GD05123140	12KΩ
RL33	1	1	1	1	1	RK01030420	10KΩ(B), Variable
RL34	1	1	1	1	1	GD05103140	10KΩ
RL35	1	1	1	1	1	GD05010140	1Ω
RL36	1	1	1	1	1	GD05562140	5.6KΩ
RL37	1	1	1	1	1	GD05562140	5.6KΩ
RL38	1	1	1	1	1	GD05103140	10KΩ
RL39	1	1	1	1	1	GD05822140	8.2KΩ
RL40	1	1	1	1	1	GD05681140	680Ω
RX01	1	1	1	1	1	RA02030060	20KΩ(B),Trim.,Meter Adj
RX02	1	1	1	1	1	RA02030060	20KΩ(B),Trim.,Meter Adj
RX03	1	1	1	1	1	GD05105140	1MΩ
RX04	1	1	1	1	1	GD05105140	1MΩ
RX05	1	1	1	1	1	GD05562140	5.6KΩ
RX06	1	1	1	1	1	GD05562140	5.6KΩ
RX07	1	1	1	1	1	GD05104140	100KΩ
RX08	1	1	1	1	1	GD05104140	100KΩ
RX09	1	1	1	1	1	GD05272140	2.7KΩ
RX10	1	1	1	1	1	GD05272140	2.7KΩ
RX11	1	1	1	1	1	GD05104140	100KΩ
RX12	1	1	1	1	1	GD05104140	100KΩ
RX13	1	1	1	1	1	GD05222140	2.2KΩ
RX14	1	1	1	1	1	GD05222140	2.2KΩ
RX15	1	1	1	1	1	GA05681010	680Ω 1W
RX16	1	1	1	1	1	GA05681010	680Ω 1W
RX17	1	1	1	1	1	GD05153140	15KΩ
RX18	1	1	1	1	1	GD05153140	15KΩ
RX21	1	1	1	1	1	GD05123140	12KΩ
RX22	1	1	1	1	1	GD05123140	12KΩ
RX23	1	1	1	1	1	GD05103140	10KΩ
RX24	1	1	1	1	1	GD05103140	10KΩ
RX31	1	1	1	1	1	GD05562140	5.6KΩ
RX32	1	1	1	1	1	GD05681140	680Ω
⚠RY01	1	1	1	1	1	GG05821140	820Ω
⚠RY02	1	1	1	1	1	GG05152140	1.5KΩ
R991	1	1	1	1	1	GD05103140	10KΩ
R992	1	1	1	1	1	GD05562140	5.6KΩ
R993	1	1	1	1	1	GD05222140	2.2KΩ
R994	1	1	1	1	1	GD05823140	82KΩ
R995	1	1	1	1	1	GD05154140	150KΩ
R998	1	1	1	1	1	GD05331140	330Ω
⚠R999	1	1	1	1	1	GG05821140	820Ω
							PJ01-SEMICONDUCTORS
DK51	1	1	1	1	1	HD10004020	Diode OA91
DK52	1	1	1	1	1	HD10004020	Diode OA91
DK53	1	1	1	1	1	HD20011050	Diode 1S1555
DK54	1	1	1	1	1	HD20011050	Diode 1S1555
DK55	1	1	1	1	1	HD20011050	Diode 1S1555
DK56	1	1	1	1	1	HD20011050	Diode 1S1555
DK59	1	1	1	1	1	HD20011050	Diode 1S1555
DK70	1	1	1	1	1	HD20011050	Diode 1S1555
DK71	1	1	1	1	1	HD20011050	Diode 1S1555
DK72	1	1	1	1	1	HD22011050	Diode 1S1555
DK73	1	1	1	1	1	HD20011050	Diode 1S1555
DK74	1	1	1	1	1	HD20011050	Diode 1S1555
DK75	1	1	1	1	1	HD20011050	Diode 1S1555
DK76	1	1	1	1	1	HD20011050	Diode 1S1555
DK77	1	1	1	1	1	HD20022100	Diode 10E1
DK78	1	1	1	1	1	HD20011050	Diode 1S1555
DK79	1	1	1	1	1	HD20011050	Diode 1S1555
DK81	1	1	1	1	1	HD20011050	Diode 1S1555

(U) : for U.S.A.
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REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
DL01	1	1	1	1	1	HD20022100	Diode 10E1
DL02	1	1	1	1	1	HD30027090	Zener WZ-140
DL03	1	1	1	1	1	HD30027090	Zener WZ-140
DL04	1	1	1	1	1	HD20011050	Diode 1S1555
DL05	1	1	1	1	1	HD20011050	Diode 1S1555
DX01	1	1	1	1	1	HD10004020	Diode OA91
DX02	1	1	1	1	1	HD10004020	Diode OA91
DX03	1	1	1	1	1	HD10004020	Diode OA91
DX04	1	1	1	1	1	HD10004020	Diode OA91
DX05	1	1	1	1	1	HD20011050	Diode 1S1555
DX06	1	1	1	1	1	HD20011050	Diode 1S1555
DY01	1	1	1	1	1	HD20011050	Diode 1S1555
D651	1	1	1	1	1	HD20011050	Diode 1S1555
QJ01	1	1	1	1	1	HT109702A0	Transistor 2SA970(GR or BL)
QJ02	1	1	1	1	1	HT109702A0	Transistor 2SA970(GR or BL)
QJ03	1	1	1	1	1	HT326342B0	Transistor 2SA2634(S or T)
QJ04	1	1	1	1	1	HT326342B0	Transistor 2SA2634(S or T)
QJ05	1	1	1	1	1	HT326342B0	Transistor 2SA2634(S or T)
QJ06	1	1	1	1	1	HT326342B0	Transistor 2SA2634(S or T)
QJ07	1	1	1	1	1	HT326342A0	Transistor 2SC2634(R or S)
QJ08	1	1	1	1	1	HT326342A0	Transistor 2SC2634(R or S)
QJ09	1	1	1	1	1	HT318151B0	Transistor 2SC1815(Y)
QJ10	1	1	1	1	1	HT318151B0	Transistor 2SC1815(Y)
QJ11	1	1	1	1	1	HT305362D0	Transistor 2SC536(G or H)
QJ12	1	1	1	1	1	HT305362D0	Transistor 2SC536(G or H)
QJ13	1	1	1	1	1	HT318151B0	Transistor 2SC1815(Y)
QJ14	1	1	1	1	1	HT318151B0	Transistor 2SC1815(Y)
QJ15	1	1	1	1	1	HT110151B0	Transistor 2SA1015(Y)
QJ16	1	1	1	1	1	HT110151B0	Transistor 2SA1015(Y)
QJ17	1	1	1	1	1	HV00003120	Varistor MV-13
QJ18	1	1	1	1	1	HV00003120	Varistor MV-13
QJ19	1	1	1	1	1	HT406552A0	Transistor 2SD655(D or E)
QJ20	1	1	1	1	1	HT406552A0	Transistor 2SD655(D or E)
QK01	1	1	1	1	1	HT406552A0	Transistor 2SD655(D or E)
QK02	1	1	1	1	1	HT406552A0	Transistor 2SD655(D or E)
QK03	1	1	1	1	1	HT305362D0	Transistor 2SC536(G or H)
QK04	1	1	1	1	1	HT305362D0	Transistor 2SC536(G or H)
QK05	1	1	1	1	1	HT326342B0	Transistor 2SC2634(S or T)
QK06	1	1	1	1	1	HT326342B0	Transistor 2SC2634(S or T)
QK07	1	1	1	1	1	HC10052050	IC TD62504P
QK08	1	1	1	1	1	HC10052050	IC TD62504P
QK51	1	1	1	1	1	HT326342A0	Transistor 2SC2634(R or S)
QK52	1	1	1	1	1	HT326342A0	Transistor 2SC2634(R or S)
QK53	1	1	1	1	1	HT406552A0	Transistor 2SD655(D or E)
QK54	1	1	1	1	1	HT406552A0	Transistor 2SD655(D or E)
QK71	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
QK72	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
QK73	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
QK75	1	1	1	1	1	HT105642J0	Transistor 2SA564A(R or S)
QK76	1	1	1	1	1	HT105642J0	Transistor 2SA564A(R or S)

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
QL01	1	1	1	1	1	HT318152B0	Transistor 2SC1815(Y or GR)
QL02	1	1	1	1	1	HT318152B0	Transistor 2SC1815(Y or GR)
QL03	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
QL04	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
QL05	1	1	1	1	1	HT313832B0	Transistor 2SC1383(Q or R)
QL06	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
QL07	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
QX01	1	1	1	1	1	HT305362D0	Transistor 2SC536(G or H)
QX02	1	1	1	1	1	HT305362D0	Transistor 2SC536(G or H)
QX03	1	1	1	1	1	HT406552A0	Transistor 2SD655(D or E)
QX04	1	1	1	1	1	HT406552A0	Transistor 2SD655(D or E)
QX05	1	1	1	1	1	HT305362D0	Transistor 2SC536(G or H)
QX06	1	1	1	1	1	HT305362D0	Transistor 2SC536(G or H)
QX07	1	1	1	1	1	HH00003030	Thermistor SDT-04
QX08	1	1	1	1	1	HH00003030	Thermistor SDT-04
QX10	1	1	1	1	1	HI11203320	L.E.D. LT-1008, Meter
Q625	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
							PJ01-MISCELLANEOUS
JJ01	1	1				YT02040350	Terminal, RCA Jack
JJ01			1	1	1	YT02040340	Terminal, RCA Jack
JJ03	1	1	1	1	1	YP06002420	Plug, (6P)
JJ04	1	1	1	1	1	YP06002360	Plug, (3P)
JJ05	1	1	1	1	1	YJ06002440	Jack, (4P)
JJ08	1	1	1	1	1	YJ06002430	Jack, (3P)
JJ09	1	1	1	1	1	YJ06002430	Jack, (3P)
JJ10	1	1	1	1	1	YJ06002440	Jack, (4P)
JJ11	1	1	1	1	1	YJ06002270	Jack, (7P)
JJ12	1	1	1	1	1	YJ06002440	Jack, (4P)
JJ13	1	1	1	1	1	YJ06002390	Jack, (5P)
LK01	1	1	1	1	1	LC22260600	Choke Coil, 22mH
LK02	1	1	1	1	1	LC22260600	Choke Coil, 22mH
LK03	1	1	1	1	1	LC24750600	Choke Coil, 4.7mH
LK04	1	1	1	1	1	LC24750600	Choke Coil, 4.7mH
LL01	1	1	1	1	1	TC10100040	OSC Transformer 105KHz
LL02	1	1	1	1	1	LC22240510	Choke Coil, 220μH
LL03	1	1	1	1	1	LC22240510	Choke Coil, 220μH
SJ01	1	1	1	1	1	SS09020100	Slide Switch, Rec/Play
SJ02	1	1	1	1	1	SP04010380	Push Switch, Line/Mic
SJ03	1	1	1	1	1	SP02010630	Push Switch, P.P.S.
SJ05	1	1	1	1	1	SR04040240	Rotary Switch, Tape Selector
S601	1	1	1	1	1	SR04050240	Rotary Switch, Dolby
WJ01	1	1	1	1	1	YU03400260	Jumper Lead, (3P)
WJ02	1	1	1	1	1	YU02260260	Jumper Lead, (2P)
WJ03	1	1	1	1	1	YU02240260	Jumper Lead, (2P)
WK01	1	1	1	1	1	YU08260260	Jumper Lead, (8P)
WK63	1	1	1	1	1	YU03180260	Jumper Lead, (3P)
WX02	1	1	1	1	1	YU02300260	Jumper Lead, (2P)
							PJ02-HEADPHONE CIRCUIT BOARD
PJ02	1	1	1	1	1	YK122T1640	P.W. Board, Headphone
	1	1	1	1	1	ZZ122T1640	P.W. Board Assembly
CJ99	1	1	1	1	1	DK18102300	Ceramic Cap. 0.001μF
JJ02	1	1	1	1	1	YJ01001460	Jack, Headphone

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REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
							PJ03-REC VOLUME CIRCUIT BOARD
PJ03	1	1	1	1	1	YK122T1620	P.W. Board, Rec Volume
	1	1	1	1	1	ZZ122T1620	P.W. Board Assembly
RJ53	1	1	1	1	1	GD05392140	Resistor 3.9KΩ ±5% ¼W
RJ99	1	1	1	1	1	RD05030140	Variable Resistor 50KΩ(A)
							PK01-MIC JACK CIRCUIT BOARD
PK01	1	1	1	1	1	YK122T1630	P.W. Board, Mic Jack
	1	1	1	1	1	ZZ122T1630	P.W. Board Assembly
CK61	1	1	1	1	1	DK18102300	Ceramic Cap. 0.001μF
CK62	1	1	1	1	1	DK18102300	" "
JK61	1	1	1	1	1	YJ01001450	Jack, Mic(L)
JK62	1	1	1	1	1	YJ01001450	Jack, Mic(R)
							PK02-REC MUTING SW. CIRCUIT BOARD
PK02	1	1	1	1	1	YK122T1650	P.W. Board, Rec Muting SW.
	1	1	1	1	1	ZZ122T1650	P.W. Board Assembly
DK80	1	1	1	1	1	HD20011050	Diode 1S1555
SJ04	1	1	1	1	1	SP01010470	Push Switch, Rec Muting
							PY01-MECHA L.E.D. CIRCUIT BOARD
PY01	1	1	1	1	1	YH120T1210	P.W. Board, Mecha L.E.D.
	1	1	1	1	1	ZZ120T1210	P.W. Board Assembly
QY01	1	1	1	1	1	HI10014320	L.E.D. GL-9HY22, Pause
QY02	1	1	1	1	1	HI10015320	L.E.D. GL-9PR22, Rec
WY01	1	1	1	1	1	YU03260260	Jumper Lead, (3P)
							PY02-CASSETTE L.E.D. CIRCUIT BOARD
PY02	1	1	1	1	1	YH120T1220	P.W. Board, Cassette L.E.D.
	1	1	1	1	1	ZZ120T1220	P.W. Board Assembly
QY03	1	1	1	1	1	HI10013050	L.E.D. TLR122
QY04	1	1	1	1	1	HI10013050	L.E.D. TLR122
							P601-DOLBY A and B CIRCUIT BOARD
P601	1	1	1	1	1	YG122T0010	P.W. Board, Dolby A and B
	1	1	1	1	1	ZZ122T0010	P.W. Board Assembly
							P601-CAPACITORS
C601	1	1	1	1	1	EA10505030	Elect 1μF 25V
C602	1	1	1	1	1	EA10505030	Elect 1μF 25V
C603	1	1	1	1	1	DF15182300	Film 1800pF ±5%
C604	1	1	1	1	1	DF15182300	Film 1800pF ±5%
C605	1	1	1	1	1	EA10601630	Elect 10μF 16V
C606	1	1	1	1	1	EA10601630	Elect 10μF 16V
C607	1	1	1	1	1	DF15473350	Film 0.047μF ±5%
C608	1	1	1	1	1	DF15473350	Film 0.047μF ±5%
C609	1	1	1	1	1	EA10601630	Elect 10μF 16V
C610	1	1	1	1	1	EA10601630	Elect 10μF 16V

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
C611	1	1	1	1	1	DF15102300	Film 1000pF ±5%
C612	1	1	1	1	1	DF15102300	Film 1000pF ±5%
C613	1	1	1	1	1	DF15222300	Film 2200pF ±5%
C614	1	1	1	1	1	DF15222300	Film 2200pF ±5%
C615	1	1	1	1	1	EA10601630	Elect 10μF 16V
C616	1	1	1	1	1	EA10601630	Elect 10μF 16V
C617	1	1	1	1	1	EA10601630	Elect 10μF 16V
C618	1	1	1	1	1	EA10601630	Elect 10μF 16V
C619	1	1	1	1	1	EA10601630	Elect 10μF 16V
C620	1	1	1	1	1	EA10601630	Elect 10μF 16V
C621	1	1	1	1	1	EA10601630	Elect 10μF 16V
C622	1	1	1	1	1	EA10601630	Elect 10μF 16V
C623	1	1	1	1	1	EA10601630	Elect 10μF 16V
C624	1	1	1	1	1	EA10601630	Elect 10μF 16V
C625	1	1	1	1	1	EA10601630	Elect 10μF 16V
C626	1	1	1	1	1	EA10601630	Elect 10μF 16V
C627	1	1	1	1	1	DF15103350	Film 0.01μF ±5%
C628	1	1	1	1	1	DF15103350	Film 0.01μF ±5%
C629	1	1	1	1	1	EA10601630	Elect 10μF 16V
C630	1	1	1	1	1	EA10601630	Elect 10μF 16V
C631	1	1	1	1	1	DF15562300	Film 5600pF ±5%
C632	1	1	1	1	1	DF15562300	Film 5600pF ±5%
C633	1	1	1	1	1	DF15273350	Film 0.027μF ±5%
C634	1	1	1	1	1	DF15273350	Film 0.027μF ±5%
C635	1	1	1	1	1	EA10505030	Elect 1μF 50V
C636	1	1	1	1	1	EA10505030	Elect 1μF 50V
C637	1	1	1	1	1	EA33405030	Elect 0.33μF 50V
C638	1	1	1	1	1	EA33405030	Elect 0.33μF 50V
C639	1	1	1	1	1	EA33405030	Elect 0.33μF 50V
C640	1	1	1	1	1	EA33405030	Elect 0.33μF 50V
C641	1	1	1	1	1	EA10405030	Elect 0.1μF 50V
C642	1	1	1	1	1	EA10405030	Elect 0.1μF 50V
C643	1	1	1	1	1	EA10405030	Elect 0.1μF 50V
C644	1	1	1	1	1	EA10405030	Elect 0.1μF 50V
C645	1	1	1	1	1	EA22701630	Elect 220μF 16V
C646	1	1	1	1	1	EA22701630	Elect 220μF 16V
C647	1	1	1	1	1	EA10701630	Elect 100μF 16V
C648	1	1	1	1	1	EA10701630	Elect 100μF 16V
C649	1	1	1	1	1	EA10601630	Elect 10μF 16V
C650	1	1	1	1	1	EA10601630	Elect 10μF 16V
C651	1	1	1	1	1	DF15182300	Film 1800pF ±5%
C652	1	1	1	1	1	DF15182300	Film 1800pF ±5%
C653	1	1	1	1	1	DD15471370	Ceramic 470pF ±5%
C654	1	1	1	1	1	DD15471370	Ceramic 470pF ±5%
C655	1	1	1	1	1	EA10601630	Elect 10μF 16V
C656	1	1	1	1	1	EA10601630	Elect 10μF 16V
C657	1	1	1	1	1	EA10601630	Elect 10μF 16V
C658	1	1	1	1	1	EA10601630	Elect 10μF 16V
C659	1	1	1	1	1	EA10601630	Elect 10μF 16V
C660	1	1	1	1	1	EA10601630	Elect 10μF 16V
C661	1	1	1	1	1	EA10601630	Elect 10μF 16V
C662	1	1	1	1	1	DF15102300	Film 1000pF ±5%
C663	1	1	1	1	1	EA10601630	Elect 10μF 16V
C901	1	1	1	1	1	EA10505030	Elect 1μF 50V
C902	1	1	1	1	1	EA10505030	Elect 1μF 50V
C903	1	1	1	1	1	DD15471370	Ceramic 470pF ±5%
C904	1	1	1	1	1	DD15471370	Ceramic 470pF ±5%
C905	1	1	1	1	1	EA22405030	Elect 0.22μF 50V
C906	1	1	1	1	1	EA22405030	Elect 0.22μF 50V
C907	1	1	1	1	1	EA10601630	Elect 10μF 16V
C908	1	1	1	1	1	EA10601630	Elect 10μF 16V
C909	1	1	1	1	1	DF15183350	Film 0.018μF ±5%
C910	1	1	1	1	1	DF15183350	Film 0.018μF ±5%

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REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
C911	1	1	1	1	1	EA10601630	Elect 10μF 16V
C912	1	1	1	1	1	EA10601630	Elect 10μF 16V
C913	1	1	1	1	1	EA10601630	Elect 10μF 16V
C914	1	1	1	1	1	EA10601630	Elect 10μF 16V
C915	1	1	1	1	1	EA10601630	Elect 10μF 16V
C916	1	1	1	1	1	EA10601630	Elect 10μF 16V
C917	1	1	1	1	1	EA10601630	Elect 10μF 16V
C918	1	1	1	1	1	EA10601630	Elect 10μF 16V
C919	1	1	1	1	1	EA10601630	Elect 10μF 16V
C920	1	1	1	1	1	EA10601630	Elect 10μF 16V
C921	1	1	1	1	1	DF15562300	Film 5600pF ±5%
C922	1	1	1	1	1	DF15562300	Film 5600pF ±5%
C923	1	1	1	1	1	DF15103350	Film 0.01μF ±5%
C924	1	1	1	1	1	DF15103350	Film 0.01μF ±5%
C925	1	1	1	1	1	EA10601630	Elect 10μF 16V
C926	1	1	1	1	1	EA10601630	Elect 10μF 16V
C927	1	1	1	1	1	DF15473350	Film 0.047μF ±5%
C928	1	1	1	1	1	DF15473350	Film 0.047μF ±5%
C929	1	1	1	1	1	DF15273350	Film 0.027μF ±5%
C930	1	1	1	1	1	DF15273350	Film 0.027μF ±5%
C931	1	1	1	1	1	DF15154350	Film 0.15μF ±5%
C932	1	1	1	1	1	DF15154350	Film 0.15μF ±5%
C933	1	1	1	1	1	DF15473350	Film 0.047μF ±5%
C934	1	1	1	1	1	DF15473350	Film 0.047μF ±5%
							P601-RESISTORS
							(All Resistors are ±5% & ¼W)
R601	1	1	1	1	1	GD05102140	1KΩ
R602	1	1	1	1	1	GD05102140	1KΩ
R603	1	1	1	1	1	GD05102140	1KΩ
R604	1	1	1	1	1	GD05102140	1KΩ
R605	1	1	1	1	1	GD05472140	4.7KΩ
R606	1	1	1	1	1	GD05472140	4.7KΩ
R607	1	1	1	1	1	GD05103140	10KΩ
R608	1	1	1	1	1	GD05103140	10KΩ
R609	1	1	1	1	1	GD05103140	10KΩ
R610	1	1	1	1	1	GD05103140	10KΩ
R611	1	1	1	1	1	GD05272140	2.7KΩ
R612	1	1	1	1	1	GD05272140	2.7KΩ
R613	1	1	1	1	1	GD05104140	100KΩ
R614	1	1	1	1	1	GD05104140	100KΩ
R615	1	1	1	1	1	GD05104140	100KΩ
R616	1	1	1	1	1	GD05104140	100KΩ
R617	1	1	1	1	1	GD05104140	100KΩ
R618	1	1	1	1	1	GD05104140	100KΩ
R619	1	1	1	1	1	GD05104140	100KΩ
R620	1	1	1	1	1	GD05104140	100KΩ
R621	1	1	1	1	1	GD05104140	100KΩ
R622	1	1	1	1	1	GD05104140	100KΩ
R623	1	1	1	1	1	GD05103140	10KΩ
R624	1	1	1	1	1	GD05103140	10KΩ
R625	1	1	1	1	1	GD05104140	100KΩ
R626	1	1	1	1	1	GD05104140	100KΩ
R627	1	1	1	1	1	GD05153140	15KΩ
R628	1	1	1	1	1	GD05153140	15KΩ
R629	1	1	1	1	1	GD05104140	100KΩ
R630	1	1	1	1	1	GD05104140	100KΩ

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
R631	1	1	1	1	1	GD05104140	100KΩ
R632	1	1	1	1	1	GD05104140	100KΩ
R633	1	1	1	1	1	GD05104140	100KΩ
R634	1	1	1	1	1	GD05104140	100KΩ
R635	1	1	1	1	1	RA05020160	5KΩ, Trim., Decord
R636	1	1	1	1	1	RA05020160	5KΩ, Trim., Decord
R639	1	1	1	1	1	GD05133140	13KΩ
R640	1	1	1	1	1	GD05133140	13KΩ
R641	1	1	1	1	1	GD05820140	82Ω
R642	1	1	1	1	1	GD05820140	82Ω
R643	1	1	1	1	1	GD05473140	47KΩ
R644	1	1	1	1	1	GD05473140	47KΩ
R645	1	1	1	1	1	GD05274140	270KΩ
R646	1	1	1	1	1	GD05274140	270KΩ
R647	1	1	1	1	1	GD05153140	15KΩ
R648	1	1	1	1	1	GD05153140	15KΩ
R649	1	1	1	1	1	GD05432140	4.3KΩ
R650	1	1	1	1	1	GD05432140	4.3KΩ
R651	1	1	1	1	1	GD05473140	47KΩ
R652	1	1	1	1	1	GD05473140	47KΩ
R653	1	1	1	1	1	GD05473140	47KΩ
R654	1	1	1	1	1	GD05473140	47KΩ
R655	1	1	1	1	1	GD05103140	10KΩ
R656	1	1	1	1	1	GD05103140	10KΩ
R657	1	1	1	1	1	GD05104140	100KΩ
R658	1	1	1	1	1	GD05104140	100KΩ
R659	1	1	1	1	1	GD05184140	180KΩ
R660	1	1	1	1	1	GD05184140	180KΩ
R661	1	1	1	1	1	GD05102140	1KΩ
R662	1	1	1	1	1	GD05102140	1KΩ
⚠R663	1	1	1	1	1	GG05101120	100Ω
⚠R664	1	1	1	1	1	GG05101120	100Ω
R665	1	1	1	1	1	GD05102140	1KΩ
R666	1	1	1	1	1	GD05102140	1KΩ
R667	1	1	1	1	1	GD05105140	1MΩ
R668	1	1	1	1	1	GD05105140	1MΩ
R669	1	1	1	1	1	GD05472140	4.7KΩ
R670	1	1	1	1	1	GD05472140	4.7KΩ
R671	1	1	1	1	1	GD05473140	47KΩ
R672	1	1	1	1	1	GD05473140	47KΩ
R673	1	1	1	1	1	GD05124140	120KΩ
R674	1	1	1	1	1	GD05124140	120KΩ
R675	1	1	1	1	1	GD05103140	10KΩ
R676	1	1	1	1	1	GD05103140	10KΩ
R677	1	1	1	1	1	GD05102140	1KΩ
R678	1	1	1	1	1	GD05102140	1KΩ
R679	1	1	1	1	1	GD05332140	3.3KΩ
R680	1	1	1	1	1	GD05332140	3.3KΩ
R681	1	1	1	1	1	GD05222140	2.2KΩ
R682	1	1	1	1	1	GD05222140	2.2KΩ
R683	1	1	1	1	1	GD05823140	82KΩ
R684	1	1	1	1	1	GD05823140	82KΩ
R685	1	1	1	1	1	GD05154140	150KΩ
R686	1	1	1	1	1	GD05154140	150KΩ
R687	1	1	1	1	1	GD05334140	330KΩ
R688	1	1	1	1	1	GD05334140	330KΩ
R693	1	1	1	1	1	GD05121140	120Ω
R694	1	1	1	1	1	GD05121140	120Ω

(U) : for U.S.A.
(C) : for Canada
(N) : for Europe
(A) : for Australia
(P) : for P.X.

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
R901	1	1	1	1	1	GD05473140	47KΩ
R902	1	1	1	1	1	GD05473140	47KΩ
R903	1	1	1	1	1	GD05393140	39KΩ
R904	1	1	1	1	1	GD05393140	39KΩ
R905	1	1	1	1	1	GD05272140	2.7KΩ
R906	1	1	1	1	1	GD05272140	2.7KΩ
R907	1	1	1	1	1	GD05104140	100KΩ
R908	1	1	1	1	1	GD05104140	100KΩ
R909	1	1	1	1	1	GD05104140	100KΩ
R910	1	1	1	1	1	GD05104140	100KΩ
R911	1	1	1	1	1	GD05272140	2.7KΩ
R912	1	1	1	1	1	GD05272140	2.7KΩ
R913	1	1	1	1	1	RA02020180	2KΩ(B), Trimming
R914	1	1	1	1	1	RA02020180	2KΩ(B), Trimming
R915	1	1	1	1	1	GD05104140	100KΩ
R916	1	1	1	1	1	GD05104140	100KΩ
R917	1	1	1	1	1	GD05104140	100KΩ
R918	1	1	1	1	1	GD05104140	100KΩ
R919	1	1	1	1	1	GD05104140	100KΩ
R920	1	1	1	1	1	GD05104140	100KΩ
R921	1	1	1	1	1	GD05820140	82Ω
R922	1	1	1	1	1	GD05820140	82Ω
R923	1	1	1	1	1	GD05104140	100KΩ
R924	1	1	1	1	1	GD05104140	100KΩ
R925	1	1	1	1	1	GD05104140	100KΩ
R926	1	1	1	1	1	GD05104140	100KΩ
R927	1	1	1	1	1	GD05153140	15KΩ
R928	1	1	1	1	1	GD05153140	15KΩ
R929	1	1	1	1	1	GD05154140	150KΩ
R930	1	1	1	1	1	GD05154140	150KΩ
R931	1	1	1	1	1	GD05103140	10KΩ
R932	1	1	1	1	1	GD05103140	10KΩ
R933	1	1	1	1	1	GD05473140	47KΩ
R934	1	1	1	1	1	GD05473140	47KΩ
R935	1	1	1	1	1	GD05133140	13KΩ
R936	1	1	1	1	1	GD05133140	13KΩ
R937	1	1	1	1	1	GD05153140	15KΩ
R938	1	1	1	1	1	GD05153140	15KΩ
R939	1	1	1	1	1	GD05162140	1.6KΩ
R940	1	1	1	1	1	GD05162140	1.6KΩ
R941	1	1	1	1	1	GD05274140	270KΩ
R942	1	1	1	1	1	GD05274140	270KΩ
R943	1	1	1	1	1	GD05124140	120KΩ
R944	1	1	1	1	1	GD05124140	120KΩ
R945	1	1	1	1	1	GD05184140	180KΩ
R946	1	1	1	1	1	GD05184140	180KΩ
R951	1	1	1	1	1	GD05104140	100KΩ
R952	1	1	1	1	1	GD05104140	100KΩ
R953	1	1	1	1	1	GD05682140	6.8KΩ
R954	1	1	1	1	1	GD05562140	5.6KΩ
R955	1	1	1	1	1	GD05154140	150KΩ
R956	1	1	1	1	1	GD05154140	150KΩ
R957	1	1	1	1	1	GD05334140	330KΩ
R958	1	1	1	1	1	GD05334140	330KΩ

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
							P601-SEMICONDUCTORS
D601	1	1	1	1	1	HD20011050	Diode 1S1555
D602	1	1	1	1	1	HD20011050	Diode 1S1555
D603	1	1	1	1	1	HD10004020	Diode OA91
D604	1	1	1	1	1	HD10004020	Diode OA91
D605	1	1	1	1	1	HD30030090	Zener WZ-177
D606	1	1	1	1	1	HD30030090	Zener WZ-177
D607	1	1	1	1	1	HD20011050	Diode 1S1555
D608	1	1	1	1	1	HD20011050	Diode 1S1555
D609	1	1	1	1	1	HD20011050	Diode 1S1555
D610	1	1	1	1	1	HD20011050	Diode 1S1555
D611	1	1	1	1	1	HD20011050	Diode 1S1555
D612	1	1	1	1	1	HD20011050	Diode 1S1555
D901	1	1	1	1	1	HD20011050	Diode 1S1555
D902	1	1	1	1	1	HD20011050	Diode 1S1555
D903	1	1	1	1	1	HD20011050	Diode 1S1555
D904	1	1	1	1	1	HD20011050	Diode 1S1555
Q601	1	1	1	1	1	HC10011270	IC NF645N
Q602	1	1	1	1	1	HC10011270	IC NF645N
Q603	1	1	1	1	1	HT305362D0	Transistor 2SC536(G or H)
Q604	1	1	1	1	1	HT305362D0	Transistor 2SC536(G or H)
Q605	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
Q606	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
Q607	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
Q608	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
Q609	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
Q610	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
Q611	1	1	1	1	1	HC406601B0	IC HD14066B
Q612	1	1	1	1	1	HC406601B0	IC HD14066B
Q613	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
Q614	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
Q615	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
Q616	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
Q617	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
Q618	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
Q619	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
Q620	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
Q621	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
Q622	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
Q623	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
Q624	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
Q625	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
Q630	1	1	1	1	1	HC10013370	IC TL4558P(B)
Q901	1	1	1	1	1	HC10011270	IC NE645N
Q902	1	1	1	1	1	HC10011270	IC NE645N
Q903	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
Q904	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
Q905	1	1	1	1	1	HC406601B0	IC HD14066B
Q906	1	1	1	1	1	HC406601B0	IC HD14066B
Q907	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
Q908	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
Q909	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
Q910	1	1	1	1	1	HT305362C0	Transistor 2SC536(F or G)
							P601-MISCELLANEOUS
L601	1	1	1	1	1	LC23660030	Choke Coil, 36mH
L602	1	1	1	1	1	LC23660030	Choke Coil, 36mH
L603	1	1	1	1	1	LC23660030	Choke Coil, 36mH
L604	1	1	1	1	1	LC23660030	Choke Coil, 36mH
L605	1	1	1	1	1	LS16010010	M.P.X. Coil
L606	1	1	1	1	1	LS16010010	M.P.X. Coil

(U) : for U.S.A.
(C) : for Canada
(N) : for Europe
(A) : for Australia
(P) : for P.X.

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
W601	1	1	1	1	1	YU03090260	Jumper Lead (3P)
W602	1	1	1	1	1	YU04140260	Jumper Lead (4P)
W603	1	1	1	1	1	YU07140260	Jumper Lead (7P)
W604	1	1	1	1	1	YU04140260	Jumper Lead (4P)
							P603-DOLBY INDICATOR CIRCUIT BOARD
P603	1	1	1	1	1	YK122T1660	P.W. Board, Dolby Indicator
	1	1	1	1	1	ZZ122T1660	P.W. Board Assembly
Q631	1	1	1	1	1	HI10002080	L.E.D. SEL1312G
							P801-POWER SUPPLY CIRCUIT BOARD
P801	1	1	1	1	1	YK122T2210	P.W. Board, Power Supply
	1	1				ZZ122T2210	P.W. Board Assembly
			1			ZZ122T8210	P.W. Board Assembly
				1		ZZ122T9210	P.W. Board Assembly
					1	ZZ122T7210	P.W. Board Assembly
							P801-CAPACITORS
C801	1	1	1	1	1	EA10803530	Elect 1000μF 35V
C802	1	1	1	1	1	EA22803530	Elect 2200μF 35V
C803	1	1	1	1	1	EA10601630	Elect 10μF 16V
C804	1	1	1	1	1	EA10601630	Elect 10μF 16V
C809	1	1	1	1	1	DK18103560	Ceramic 0.01μF
C811	1	1	1	1	1	EA10803530	Elect 1000μF 35V
C812	1	1	1	1	1	EA10701630	Elect 100μF 16V
C813	1	1	1	1	1	EA22701630	Elect 220μF 16V
C814	1	1	1	1	1	EA22700630	Elect 220μF 6.3V
C815	1	1	1	1	1	EA22700630	Elect 220μF 6.3V
C819	1	1	1	1	1	DK18103560	Ceramic 0.01μF
⚠G801	1	1				DK18103530	Ceramic 0.01μF 125V
⚠G801			1	1		DK18103840	Ceramic 0.01μF 400V
⚠G801					1	DK18103850	Ceramic 0.01μF 250V
							P801-RESISTORS (All Resistors Are ±5% & ¼W)
⚠R811	1	1	1	1	1	GG05102140	1KΩ
R812	1	1	1	1	1	GD05393140	39KΩ
R813	1	1	1	1	1	GD05823140	82KΩ
R814	1	1	1	1	1	GD05223140	22KΩ
R815	1	1	1	1	1	GD05103140	10KΩ
⚠R851	1	1	1	1	1	GG05102140	1KΩ
⚠R852	1	1	1	1	1	GG05821140	820Ω
							P801-SEMICONDUCTORS
⚠D801	1	1	1	1	1	HD20021290	Diode SIVB20
⚠D811	1	1	1	1	1	HD20026080	Diode RB151-FA
D812	1	1	1	1	1	HD30024090	Zener WZ-140
D813	1	1	1	1	1	HD30031090	Zener WZ-081
D814	1	1	1	1	1	HD20022100	Diode 10E1
⚠Q801	1	1	1	1	1	HC10013090	IC NJM78M12A
⚠Q802	1	1	1	1	1	HC10044060	IC μPC7912H
⚠Q811	1	1	1	1	1	HT403132Q0	Transistor 2SD313(E or F)
Q812	1	1	1	1	1	HT318152A0	Transistor 2SC1815(O or Y)
Q813	1	1	1	1	1	HT318152A0	Transistor 2SC1815(O or Y)

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
							P801-MISCELLANEOUS
J801	1	1	1	1	1	YJ06002270	Jack, (7P)
J802	1	1	1	1	1	YJ06002500	Jack, (2P)
J803	1	1	1	1	1	YP06002390	Plug. (9P)
J804	1	1	1	1	1	YJ06002500	Jack, (2P)
J805	1	1	1	1	1	YP06002420	Jack, (6P)
⚠S801	1	1				SP01010420	Push Switch, Power
⚠S801			1	1		SP01010390	Push Switch, Power
⚠S801					1	SP01010430	Push Switch, Power
							P802-POWER INDICATOR CIRCUIT BOARD
P802	1	1	1	1	1	YK122T2220	P.W. Board, Power Indicator
	1	1	1	1	1	ZZ122T2220	P.W. Board Assembly
Q851	1	1	1	1	1	HI10006320	L.E.D. GL9NG9
W804	1	1	1	1	1	YU02140260	Jumper Lead, (2P)

(W01-99)	Assembly and Wiring
(T01-99)	Adjustment
(X01-00)	Correction

10. TECNICAL SPECIFICATIONS

Style	Front load
Tape Drive System	Single Capstan Drive
Cartridge	Philips type compact cassette
Track System	Compatible Stereo 4-track 2-channel
Tape Speed	4.75 cm/sec.
Heads	2 Head System
Composition	Rec/Play: Super Hard Metal Alloy
	Erase: Dual gap Ferrite
Motor	1 Motor System
	Capstan DC Servo Motor
Meters	12 Dots Peak LED Meter x 2
Overall Frequency Response at -20 dB	
Normal Tape	25 Hz ~ 15.5 kHz
CrO_2 Tape	25 Hz ~ 16.5 kHz
Fe-Cr Tape	25 Hz ~ 17 kHz
Metal Tape	25 Hz ~ 18 kHz
Signal-to-Noise Ratio:	
Dolby C (ON)	79 dB
Dolby (OFF)	59 dB
Wow and Flutter	
DIN WTD	0.11%
Outputs	
Line Level/Impedance	400 mV/3 kΩ
Headphone Level/Impedance	50 mV/50 Ω
Input (Level at 0 VU)	
Line Sensitivity/Impedance	50 mV/50 kΩ
Mic Sensitivity/Impedance	0.25 mV/10 kΩ
Fast Rewind Time	90 sec. (C-60)
Fast Forward Time	90 sec. (C-60)
AC Line Voltage	220V AC, 50 Hz
	(N version is featuring an external voltage selector for use on other voltage.
	Other versions can be converted by a qualified technician to operate on 240V.)
Power Consumption	28 W
Dimensions (W x H x D)	416 x 117.5 x 302 mm
Weight	5.8 kg

Specifications and appearance are subject to change for madifications without notice.

SCHEMATIC DIAGRAM

QJ01, QJ02
HT109702A0
2SA970(GR or BL)

QJ03 ~ QJ06
QK05, QK06
HT326342B0
2SC2634(R or S)

QJ07, QJ08
QK51, QK52
HT326342A0
2SC2634(R or S)

QJ09, QJ10
HT318151B0
2SC1815(Y)

QJ11, QJ12, QK03
QK04, QK71 ~ QK73
HT305620D0
2SC536(G or H)

QJ13 ~ QJ16
HT110151B0
2SA1015(Y)

QJ17, QJ18
HV00003120
MV-13

QJ19, QJ20, QK01
QK02, QK53, QK54
HT406552A0
2SD655(D or E)

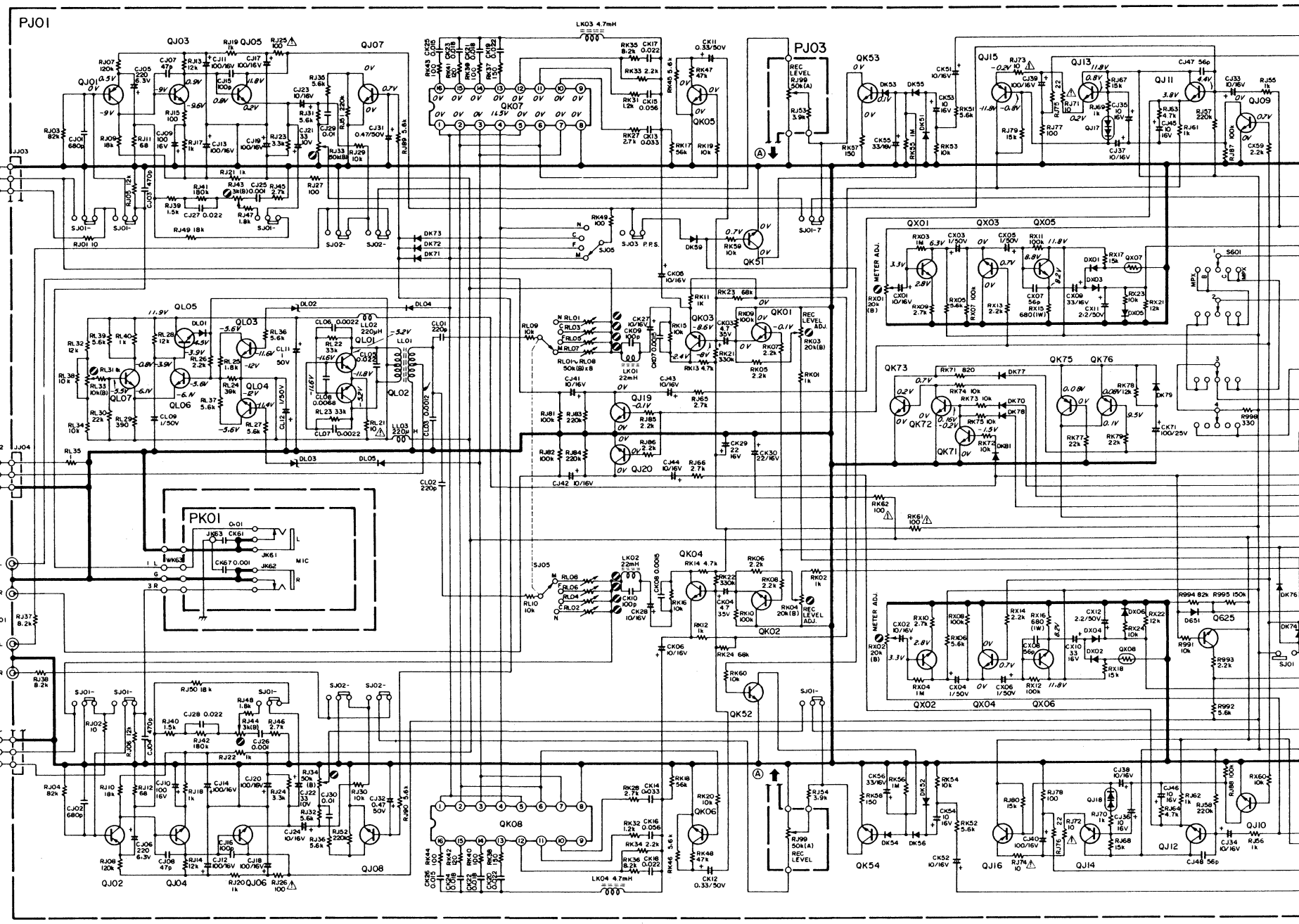
QK07, QK08
HC10052050
TD62504P

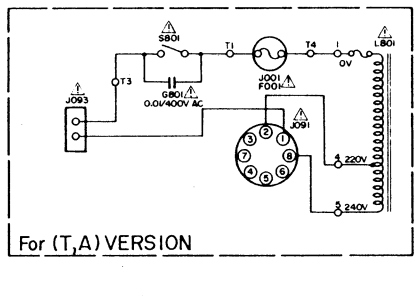
QK75, QK76
HT105642J0
2SA564A(R or S)

DK51, DK52
HD10004020
0A91

DK53 ~ DK76, DK78 ~ DK81
DL04, DL05, D651
HD20011050
1S1555

DK77,
HD2002
10E1-FA

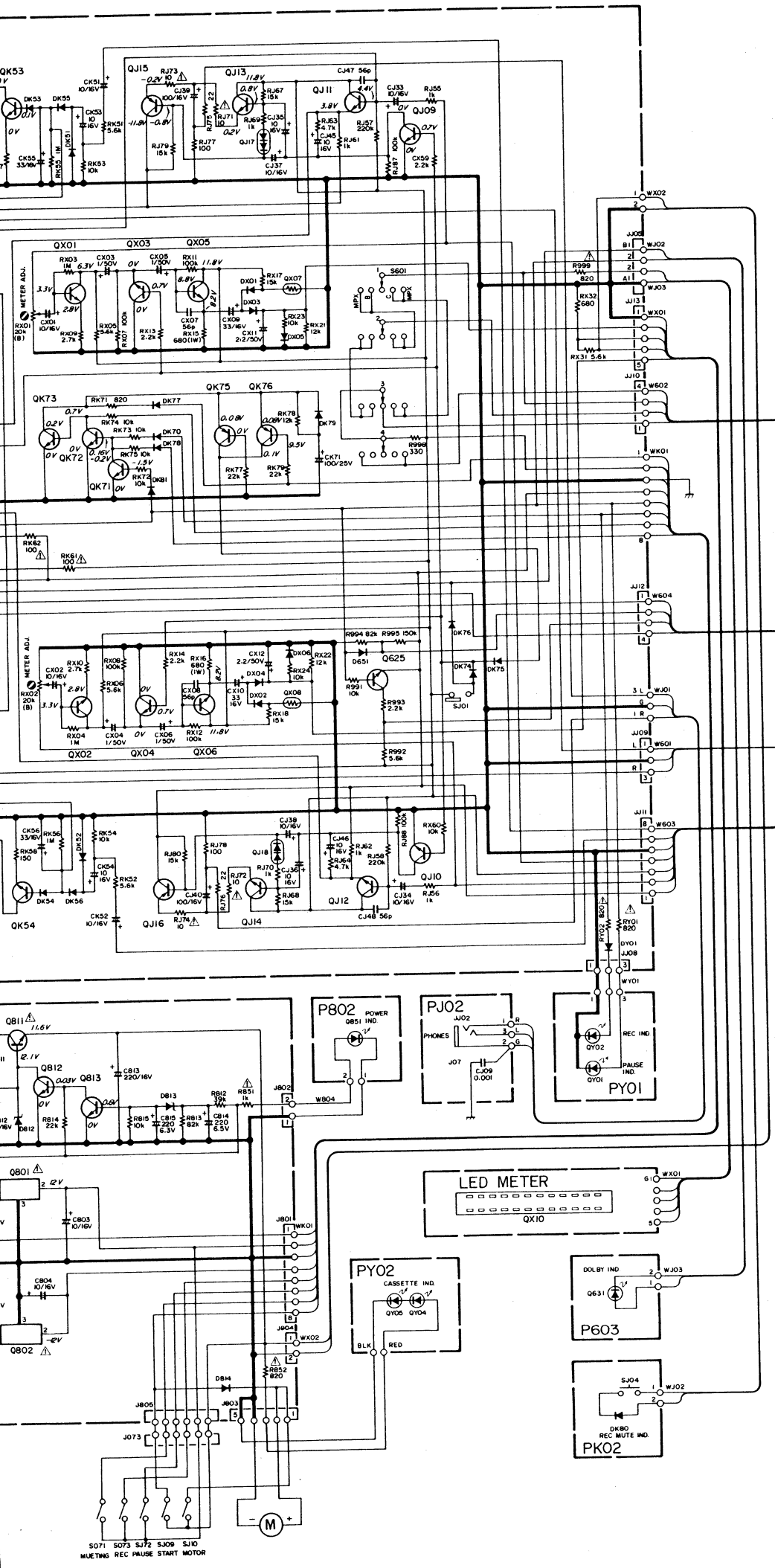




(Note on safety: The parts marked with ⚠ are important parts on the safety. Please use the parts having the designated parts number without fail.)

Components and wiring are subject to change f

QK75,QK76 HT105642J0 2SA564A(R or S)	DK51, DK52 HD10004020 0A91	DK53~DK76, DK78~DK81 DL04, DL05, D651 HD20011050 1SI555	DK77, DL01 HD20022100 10E1-FA	DL02, DL03 HD30027090 WZ-140	QL03, QL04 QL06, QL07 HT305362C0 2SC536(F or G)	Q801 HC10013090 NJM78M12A	Q802 HC10044060 μPC7912H	Q811 HT40313200 2SD313(E or F)	Q812, Q813 HT318152A0 2SC1815(O or Y)	Q851 H:10006320 GL9NG9	D801 HD20021290 SiVB20	D811 HD20026080 RB151-FA	D812 HD30027090 WZ-140	D813 HD30031090 WZ081			



Components and wiring are subject to change for modification without notice.

DL02, DL03
HD30027090
WZ-140

QL03, QL04
QL06, QL07
HT305362C0
2SC536(F or G)

Q801
HCI0013090
NJM78M12A

Q802
HCI0044060
μPC7912H

Q811
HT40313200
2SD313(E or F)

Q812, Q813
HT3181520
2SCI815(O or Y)

Q851
HI10006320
GL9NG9

D801
HD20021290
SiVB20

D811
HD20026080
RBI51-FA

D812
HD30027090
WZ-140

D813
HD30031090
WZ081

D814
HD20022100
IOEI-FA

QX05, QX06
HT305362D0
2SC536(G or H)

QX07, QX08
HH00003030
STD-04

QX10
HI11203320
LT-1008

DX01~DX04
HDI0004020
0A91

DX05, DX06
HD20011050
ISI555

QX01, QX02
HT305362D0
2SC536(G or H)

QX03, QX04
HT406552A0
2SD655(D or E)

DY01
HD20011050
ISI555

QY01
HI10014320
GL-9HY22

QY02
HI10015320
GL-9PR22

QY03, QY04
HI10013050
TLR122

Q601
HC10011270
NF645N

Q603~Q610
Q613~Q625
Q907~Q910
HT305362C0
2SC536(F,G)

Q611, Q611
HC406601B0
HD4066B

Q630
HCI0013370
TL4558P

Q631
HI10002080
SEL1312G

Q901, Q902
HCI0011270
NE645N

Q905, Q906
HC406601B0
HD14066B

D601, D602
D901~D904
HD20001050
ISI555

D603, D604
HDI0004020
0A91

D605, D606
HD30030090
WZ-177

dification without notice.